

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

## 1 Identification

- **Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12200-SP, 12201
- **CAS Number:**  
75-60-5
- **EC number:**  
200-883-4
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
Suspected of causing cancer.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

Trade name: **Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 1)

- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Identification number(s)**
- **EC number:** 200-883-4

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 2)

- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 4)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 3)

· **Eye protection:** *Not required.*

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**· **Form:** *Not determined.*· **Color:** *Not determined.*· **Odor:** *Characteristic*· **Odor threshold:** *Not determined.*· **pH-value:** *Not determined.*· **Change in condition**· **Melting point/Melting range:** *Undetermined.*· **Boiling point/Boiling range:** *Undetermined.*· **Flash point:** *Not applicable.*· **Flammability (solid, gaseous):** *Not flammable.*· **Ignition temperature:**· **Decomposition temperature:** *Not determined.*· **Auto igniting:** *Not determined.*· **Danger of explosion:** *Product does not present an explosion hazard.*· **Explosion limits:**· **Lower:** *Not determined.*· **Upper:** *Not determined.*· **Vapor pressure:** *Not determined.*· **Density:** *Not determined.*· **Relative density** *Not determined.*· **Vapor density** *Not determined.*· **Evaporation rate** *Not applicable.*· **Solubility in / Miscibility with**· **Water:** *Not determined.*· **Partition coefficient (n-octanol/water):** *Not determined.*· **Viscosity:**· **Dynamic:** *Not determined.*· **Kinematic:** *Not determined.*· **Other information** *No further relevant information available.*

## 10 Stability and reactivity

· **Reactivity** *No further relevant information available.*· **Chemical stability**· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*· **Possibility of hazardous reactions** *No dangerous reactions known.*· **Conditions to avoid** *No further relevant information available.*

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 4)

- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

75-60-5	Cacodylic Acid, Free Acid, Reagent, ACS
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2B

- **NTP (National Toxicology Program)** Substance is not listed.
- **OSHA-Ca (Occupational Safety Health Administration)** Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 3 (Assessment by list): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

US

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS


Printing date 08/01/2016

Reviewed on 08/01/2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 5)

## 14 Transport information

<b>· UN-Number</b>	
<b>· DOT, ADR, IMDG, IATA</b>	UN1572
<b>· UN proper shipping name</b>	
<b>· DOT</b>	<i>Cacodylic acid</i>
<b>· ADR</b>	<i>1572 Cacodylic acid</i>
<b>· IMDG, IATA</b>	<i>CACODYLIC ACID</i>
<b>· Transport hazard class(es)</b>	
<b>· DOT</b>	
	
<b>· Class</b>	<i>6.1 Toxic substances</i>
<b>· Label</b>	<i>6.1</i>
<b>· ADR, IMDG, IATA</b>	
	
<b>· Class</b>	<i>6.1 Toxic substances</i>
<b>· Label</b>	<i>6.1</i>
<b>· Packing group</b>	
<b>· DOT, ADR, IMDG, IATA</b>	<i>II</i>
<b>· Environmental hazards:</b>	<i>Not applicable.</i>
<b>· Special precautions for user</b>	<i>Warning: Toxic substances</i>
<b>· Danger code (Kemler):</b>	<i>60</i>
<b>· EMS Number:</b>	<i>6.1-04</i>
<b>· Segregation groups</b>	<i>Acids</i>
<b>· Stowage Category</b>	<i>E</i>
<b>· Segregation Code</b>	<i>SG35 Stow "separated from" acids.</i>
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
<b>· Transport/Additional information:</b>	
<b>· DOT</b>	
<b>· Quantity limitations</b>	<i>On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg</i>
<b>· Hazardous substance:</b>	<i>1 lbs, 0.454 kg</i>
<b>· ADR</b>	
<b>· Excepted quantities (EQ)</b>	<i>Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml</i>
<b>· IMDG</b>	
<b>· Limited quantities (LQ)</b>	<i>500 g</i>

(Contd. on page 7)

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 6)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>Code: E4<br/>           Maximum net quantity per inner packaging: 1 ml<br/>           Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | <p>UN 1572 CACODYLIC ACID, 6.1, II</p>  |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **Sara**
  - **Section 355 (extremely hazardous substances):** Substance is not listed.
  - **Section 313 (Specific toxic chemical listings):** Substance is listed.
  - **TSCA (Toxic Substances Control Act):** Substance is listed.
  - **Proposition 65**
  - **Chemicals known to cause cancer:** Substance is listed.
  - **Chemicals known to cause reproductive toxicity for females:** Substance is not listed.
  - **Chemicals known to cause reproductive toxicity for males:** Substance is not listed.
  - **Chemicals known to cause developmental toxicity:** Substance is not listed.
  - **Carcinogenic categories**
- |  |   |   |
|--|---|---|
| <ul style="list-style-type: none"> <li>· <b>EPA (Environmental Protection Agency)</b></li> </ul> |   |   |
| 75-60-5  | Cacodylic Acid, Free Acid, Reagent, ACS | D |
- **TLV (Threshold Limit Value established by ACGIH)** Substance is not listed.
  - **NIOSH-Ca (National Institute for Occupational Safety and Health)** Substance is not listed.
  - **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
  - **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
Suspected of causing cancer.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 08/01/2016 / -
- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

(Contd. on page 8)

**Safety Data Sheet**  
**acc. to OSHA HCS**

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 7)

*IMDG: International Maritime Code for Dangerous Goods*  
*DOT: US Department of Transportation*  
*IATA: International Air Transport Association*  
*ACGIH: American Conference of Governmental Industrial Hygienists*  
*EINECS: European Inventory of Existing Commercial Chemical Substances*  
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*  
*NFPA: National Fire Protection Association (USA)*  
*HMIS: Hazardous Materials Identification System (USA)*  
*PBT: Persistent, Bioaccumulative and Toxic*  
*vPvB: very Persistent and very Bioaccumulative*  
*NIOSH: National Institute for Occupational Safety*  
*OSHA: Occupational Safety **Health***  
***TLV: Threshold Limit Value***  
***PEL: Permissible Exposure Limit***  
***REL: Recommended Exposure Limit***  
***Carc. 2: Carcinogenicity – Category 2***

US



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

## 1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12200-SP, 12201
- **CAS Number:**  
75-60-5
- **EC number:**  
200-883-4
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- ProSciTech Pty Ltd  
11 Carlton Street, Kirwan QLD 4817 Australia  
Telephone Number: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)  
Emergency Contact: (07) 4773 9444 - 8:30am - 5:00pm, Monday to Friday (excluding Public Holidays)
- Emgrid Australia Pty. Ltd.  
P.O. Box 118  
The Patch VIC 3792  
Australia  
Tel: 03 9752 1785  
Fax: 03 9752 1784  
Website: www.emgrid.com.au
- **Further information obtainable from:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazards identification

- **Classification of the substance or mixture**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

- **Label elements**
- **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 1)

· **Hazard pictograms**

GHS08

- **Signal word** *Warning*
- **Hazard statements**  
*Suspected of causing cancer.*
- **Precautionary statements**  
*Wear protective gloves/protective clothing/eye protection/face protection.*  
*Obtain special instructions before use.*  
*Do not handle until all safety precautions have been read and understood.*  
*IF exposed or concerned: Get medical advice/attention.*  
*Store locked up.*  
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

- **Chemical characterisation:** *Substances*
- **CAS No. Description**  
*75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS*
- **Identification number(s)**
- **EC number:** *200-883-4*

### 4 First aid measures

- **Description of first aid measures**
- **After inhalation:** *Supply fresh air; consult doctor in case of complaints.*
- **After skin contact:** *Generally the product does not irritate the skin.*
- **After eye contact:** *Rinse opened eye for several minutes under running water.*
- **After swallowing:** *If symptoms persist consult doctor.*
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** *No further relevant information available.*
- **Indication of any immediate medical attention and special treatment needed**  
*No further relevant information available.*

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
*CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.*
- **Special hazards arising from the substance or mixture** *No further relevant information available.*

(Contd. on page 3)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 2)

- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

**75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS**

WES	Long-term value: 0.05 mg/m <sup>3</sup> Note (g); as As
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- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 3)

· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Not required.

## 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· **Form:** Not determined.

· **Colour:** Not determined.

· **Odour:** Characteristic

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:**

· **Decomposition temperature:** Not determined.

· **Self-igniting:** Not determined.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· **Lower:** Not determined.

· **Upper:** Not determined.

· **Vapour pressure:** Not determined.

· **Density:** Not determined.

· **Relative density** Not determined.

· **Vapour density** Not determined.

· **Evaporation rate** Not applicable.

(Contd. on page 5)

AU

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 4)

- |   |   |
|---|---|
| · <b>Solubility in / Miscibility with water:</b>  | <i>Not determined.</i>                            |
| · <b>Partition coefficient (n-octanol/water):</b> | <i>Not determined.</i>                            |
| · <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                   | <i>Not determined.</i>                            |
| <b>Kinematic:</b>                                 | <i>Not determined.</i>                            |
| · <b>Other information</b>                        | <i>No further relevant information available.</i> |

### 10 Stability and reactivity

- **Reactivity** *No further relevant information available.*
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **Possibility of hazardous reactions** *No dangerous reactions known.*
- **Conditions to avoid** *No further relevant information available.*
- **Incompatible materials:** *No further relevant information available.*
- **Hazardous decomposition products:** *No dangerous decomposition products known.*

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity**
- **Primary irritant effect:**
- **Skin corrosion/irritation** *No irritant effect.*
- **Serious eye damage/irritation** *No irritating effect.*
- **Respiratory or skin sensitisation** *No sensitising effects known.*
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
*Carc. 2*

### 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** *No further relevant information available.*
- **Persistence and degradability** *No further relevant information available.*
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** *No further relevant information available.*
- **Mobility in soil** *No further relevant information available.*
- **Additional ecological information:**
- **General notes:**  
*Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water*  
*Do not allow product to reach ground water, water course or sewage system, even in small quantities.*  
*Danger to drinking water if even extremely small quantities leak into the ground.*
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*
- **Other adverse effects** *No further relevant information available.*

AU

(Contd. on page 6)

**Safety data sheet**  
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Revision: 01.08.2016


Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 5)

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

· <b>UN-Number</b> · <b>ADG, IMDG, IATA</b>	<i>UN1572</i>
· <b>UN proper shipping name</b> · <b>ADG</b> · <b>IMDG, IATA</b>	<i>1572 CACODYLIC ACID</i> <i>CACODYLIC ACID</i>
· <b>Transport hazard class(es)</b> · <b>ADG, IMDG, IATA</b>	
· <b>Class</b> · <b>Label</b>	<i>6.1 Toxic substances.</i> <i>6.1</i>
· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	<i>II</i>
· <b>Environmental hazards:</b>	<i>Not applicable.</i>
· <b>Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Segregation Code</b>	<i>Warning: Toxic substances.</i> <i>60</i> <i>6.1-04</i> <i>Acids</i> <i>E</i> <i>SG35 Stow "separated from" acids.</i>
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	<i>Not applicable.</i>
· <b>Transport/Additional information:</b>	
· <b>ADG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	<i>500 g</i> <i>Code: E4</i> <i>Maximum net quantity per inner packaging: 1 ml</i> <i>Maximum net quantity per outer packaging: 500 ml</i>
· <b>Transport category</b> · <b>Tunnel restriction code</b>	<i>2</i> <i>D/E</i>
· <b>IMDG</b> · <b>Limited quantities (LQ)</b>	<i>500 g</i>

(Contd. on page 7)

AU

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: **Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 6)

· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1572 CACODYLIC ACID, 6.1, II

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Australian Inventory of Chemical Substances** Substance is listed.
- **Standard for the Uniform Scheduling of Medicines and Poisons** Substance is not listed.
- **GHS label elements**  
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
Suspected of causing cancer.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** Substance is not listed.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Abbreviations and acronyms:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Carc. 2: Carcinogenicity – Category 2

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

## 1 Identification

- **Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12200-SP, 12201
- **CAS Number:**  
75-60-5
- **EC number:**  
200-883-4
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Information department:** Product safety department
- **Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

Carcinogenicity – Category 2 H351 Suspected of causing cancer.

- **Label elements**
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
Suspected of causing cancer.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Hazard description:**
- **WHMIS-symbols:**  
D1A - Very toxic material causing immediate and serious toxic effects

(Contd. on page 2)

CA



# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 1)

D2A - Very toxic material causing other toxic effects



- **Classification system:**
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**

HEALTH	3	Health = *3
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

### 3 Composition/information on ingredients

- **Chemical characterization: Substances**
- **CAS No. Description**  
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Identification number(s)**
- **EC number: 200-883-4**

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.

(Contd. on page 3)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 2)

- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

(Contd. on page 4)

CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 3)

- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Not required.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form: Not determined.

Color: Not determined.

· Odor: Characteristic

· Odor threshold: Not determined.

· pH-value: Not determined.

#### · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not flammable.

#### · Ignition temperature:

Decomposition temperature: Not determined.

· Auto igniting: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

#### · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapor pressure: Not determined.

· Density: Not determined.

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not applicable.

#### · Solubility in / Miscibility with

Water: Not determined.

· Partition coefficient (n-octanol/water): Not determined.

#### · Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· Other information: No further relevant information available.

## 10 Stability and reactivity

- **Reactivity** No further relevant information available.

(Contd. on page 5)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 4)

- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
- **Carcinogenic categories**

<b>· IARC (International Agency for Research on Cancer)</b>	
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75-60-5	Cacodylic Acid, Free Acid, Reagent, ACS	2B
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- **NTP (National Toxicology Program)** Substance is not listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
- Water hazard class 3 (Assessment by list): extremely hazardous for water
- Do not allow product to reach ground water, water course or sewage system, even in small quantities.
- Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
- Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

CA

(Contd. on page 6)

# Safety Data Sheet

acc. to OSHA HCS



Printing date 08/01/2016

Reviewed on 08/01/2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 5)

## 14 Transport information

<b>· UN-Number</b>	UN1572
<b>· DOT, TDG, IMDG, IATA</b>	
<b>· UN proper shipping name</b>	<i>Cacodylic acid</i>
<b>· DOT</b>	<i>1572 Cacodylic acid</i>
<b>· TDG</b>	<i>CACODYLIC ACID</i>
<b>· IMDG, IATA</b>	
<b>· Transport hazard class(es)</b>	
<b>· DOT</b>	
	
<b>· Class</b>	<i>6.1 Toxic substances</i>
<b>· Label</b>	<i>6.1</i>
<b>· TDG, IMDG, IATA</b>	
	
<b>· Class</b>	<i>6.1 Toxic substances</i>
<b>· Label</b>	<i>6.1</i>
<b>· Packing group</b>	<i>II</i>
<b>· DOT, TDG, IMDG, IATA</b>	
<b>· Environmental hazards:</b>	<i>Not applicable.</i>
<b>· Special precautions for user</b>	<i>Warning: Toxic substances</i>
<b>· Danger code (Kemler):</b>	<i>60</i>
<b>· EMS Number:</b>	<i>6.1-04</i>
<b>· Segregation groups</b>	<i>Acids</i>
<b>· Stowage Category</b>	<i>E</i>
<b>· Segregation Code</b>	<i>SG35 Stow "separated from" acids.</i>
<b>· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	<i>Not applicable.</i>
<b>· Transport/Additional information:</b>	
<b>· DOT</b>	
<b>· Quantity limitations</b>	<i>On passenger aircraft/rail: 25 kg On cargo aircraft only: 100 kg</i>
<b>· Hazardous substance:</b>	<i>1 lbs, 0.454 kg</i>
<b>· TDG</b>	
<b>· Excepted quantities (EQ)</b>	<i>Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml</i>
<b>· IMDG</b>	
<b>· Limited quantities (LQ)</b>	<i>500 g</i>

(Contd. on page 7)

CA

# Safety Data Sheet

acc. to OSHA HCS

Printing date 08/01/2016

Reviewed on 08/01/2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 6)

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p>Code: E4</p> <p>Maximum net quantity per inner packaging: 1 ml</p> <p>Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | <p>UN 1572 CACODYLIC ACID, 6.1, II</p>  |

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Sara**
- **Section 355 (extremely hazardous substances):** Substance is not listed.
- **Section 313 (Specific toxic chemical listings):** Substance is listed.
- **TSCA (Toxic Substances Control Act):** Substance is listed.
- **Canadian substance listings:**
- **Canadian Domestic Substances List (DSL)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 0.1%)** Substance is not listed.
- **Canadian Ingredient Disclosure list (limit 1%)** Substance is not listed.
- **GHS label elements** The substance is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
Suspected of causing cancer.
- **Precautionary statements**  
Wear protective gloves/protective clothing/eye protection/face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
IF exposed or concerned: Get medical advice/attention.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 08/01/2016 / -
- **Abbreviations and acronyms:**  
IMDG: International Maritime Code for Dangerous Goods  
DOT: US Department of Transportation  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
WHMIS: Workplace Hazardous Materials Information System (Canada)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

- **1.1 Product identifier**
- **Trade name:** Cacodylic Acid, Free Acid, Reagent, ACS
- **Article number:** 12200, 12200-SP, 12201
- **CAS Number:**  
75-60-5
- **EC number:**  
200-883-4
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Further information obtainable from:** Product safety department
- **1.4 Emergency telephone number:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS08 health hazard

Carc. 2 H351 Suspected of causing cancer.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS08

- **Signal word** Warning
- **Hazard statements**  
H351 Suspected of causing cancer.
- **Precautionary statements**  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

**Trade name: Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 1)

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT: Not applicable.**
- **vPvB: Not applicable.**

## SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**  
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- **Identification number(s)**
- **EC number: 200-883-4**

## SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

## SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.

## SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

## SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:** No special measures required.

(Contd. on page 3)



**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 2)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Keep away from foodstuffs, beverages and feed.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:**  
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Not required.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
- **Form:** Not determined.
- **Colour:** Not determined.
- **Odour:** Characteristic
- **Odour threshold:** Not determined.
- **pH-value:** Not determined.

(Contd. on page 4)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: *Cacodylic Acid, Free Acid, Reagent, ACS*

(Contd. of page 3)

· <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	<i>Undetermined.</i>
<b>Boiling point/Boiling range:</b>	<i>Undetermined.</i>
· <b>Flash point:</b>	<i>Not applicable.</i>
· <b>Flammability (solid, gaseous):</b>	<i>Not applicable.</i>
· <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	<i>Not determined.</i>
· <b>Self-igniting:</b>	<i>Not determined.</i>
· <b>Danger of explosion:</b>	<i>Product does not present an explosion hazard.</i>
· <b>Explosion limits:</b>	
<b>Lower:</b>	<i>Not determined.</i>
<b>Upper:</b>	<i>Not determined.</i>
· <b>Vapour pressure:</b>	<i>Not determined.</i>
· <b>Density:</b>	<i>Not determined.</i>
· <b>Relative density</b>	<i>Not determined.</i>
· <b>Vapour density</b>	<i>Not determined.</i>
· <b>Evaporation rate</b>	<i>Not applicable.</i>
· <b>Solubility in / Miscibility with water:</b>	<i>Not determined.</i>
· <b>Partition coefficient (n-octanol/water):</b>	<i>Not determined.</i>
· <b>Viscosity:</b>	
<b>Dynamic:</b>	<i>Not determined.</i>
<b>Kinematic:</b>	<i>Not determined.</i>
· <b>9.2 Other information</b>	<i>No further relevant information available.</i>

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** *No further relevant information available.*
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*
- **10.3 Possibility of hazardous reactions** *No dangerous reactions known.*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:** *No dangerous decomposition products known.*

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** *Based on available data, the classification criteria are not met.*
- **Primary irritant effect:**
- **Skin corrosion/irritation** *Based on available data, the classification criteria are not met.*
- **Serious eye damage/irritation** *Based on available data, the classification criteria are not met.*
- **Respiratory or skin sensitisation** *Based on available data, the classification criteria are not met.*
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** *Based on available data, the classification criteria are not met.*

(Contd. on page 5)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: **Cacodylic Acid, Free Acid, Reagent, ACS**

(Contd. of page 4)

- **Carcinogenicity**  
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.


### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

### SECTION 14: Transport information

- |   |                       |
|---|-----------------------|
| · <b>14.1 UN-Number</b>   |                       |
| · <b>ADR, IMDG, IATA</b>  | UN1572                |
| · <b>14.2 UN proper shipping name</b>   |                       |
| · <b>ADR</b>  | 1572 CACODYLIC ACID   |
| · <b>IMDG, IATA</b>   | CACODYLIC ACID        |
| · <b>14.3 Transport hazard class(es)</b>  |                       |
| · <b>ADR, IMDG, IATA</b>  |                       |
|  |                       |
| · <b>Class</b>  | 6.1 Toxic substances. |
| · <b>Label</b>  | 6.1                   |

(Contd. on page 6)

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.08.2016

Revision: 01.08.2016

Trade name: Cacodylic Acid, Free Acid, Reagent, ACS

(Contd. of page 5)

· <b>14.4 Packing group</b> · <b>ADR, IMDG, IATA</b>	II
· <b>14.5 Environmental hazards:</b>	Not applicable.
· <b>14.6 Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Segregation Code</b>	Warning: Toxic substances. 60 6.1-04 Acids E SG35 Stow "separated from" acids.
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b>	2 D/E
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1572 CACODYLIC ACID, 6.1, II

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I Substance is not listed.**
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Carcinogenicity – Category 2

# Veiligheidsinformatieblad volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

## RUBRIEK 1: Identificatie van de stof of het mengsel en van de vennootschap/onderneming

### · 1.1 Productidentificatie

· **Handelsnaam:** dimethylarsinezuur

· **Artikelnummer:** 12200, 12200-SP, 12201

· **CAS-nummer:**

75-60-5

· **EC-nummer:**

200-883-4

· **1.2 Relevant geïdentificeerd gebruik van de stof of het mengsel en ontraden gebruik**

Geen verdere relevante informatie verkrijgbaar.

· **Toepassing van de stof / van de bereiding** Laboratoriumchemicaliën

· **1.3 Details betreffende de verstrekker van het veiligheidsinformatieblad**

· **Fabrikant/leverancier:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: sgkcck@aol.com

www.emsdiasum.com

Aurion

Binnenhaven 5

6709 PD Wageningen

The Netherlands

Tel: 31 317 415094

Fax: 31 317 415955

email: info@aurion.nl

· **Inlichtingengevende sector:** Product safety department

· **1.4 Telefoonnummer voor noodgevallen:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

## RUBRIEK 2: Identificatie van de gevaren

· **2.1 Indeling van de stof of het mengsel**

· **Indeling overeenkomstig Verordening (EG) nr. 1272/2008**



GHS08 gezondheidsgevaar

Carc. 2 H351 Verdacht van het veroorzaken van kanker.

· **2.2 Etiketteringselementen**

· **Etikettering overeenkomstig Verordening (EG) nr. 1272/2008**

De stof/product is geclassificeerd en geëtiketteerd volgens de CLP-verordening.

· **Gevarenpictogrammen**



GHS08

· **Signaalwoord** Waarschuwing

· **Gevarenaanduidingen**

H351 Verdacht van het veroorzaken van kanker.

(Vervolg op blz. 2)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

**Handelsnaam: dimethylarsinezuur**

(Vervolg van blz. 1)

- **Veiligheidsaanbevelingen**

- P280 Beschermende handschoenen/beschermende kleding/oogbescherming/gelaatsbescherming dragen.
- P201 Alvorens te gebruiken de speciale aanwijzingen raadplegen.
- P202 Pas gebruiken nadat u alle veiligheidsvoorschriften gelezen en begrepen heeft.
- P308+P313 NA (mogelijke) blootstelling: een arts raadplegen.
- P405 Achter slot bewaren.
- P501 De inhoud en de verpakking verwerken volgens de plaatselijke/regionale/nationale/internationale voorschriften.

- **2.3 Andere gevaren**

- **Resultaten van PBT- en zPzB-beoordeling**

- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.

### RUBRIEK 3: Samenstelling en informatie over de bestanddelen

- **3.1 Chemische karakterisering: Stoffen**

- **CAS-Nr. omschrijving**  
75-60-5 dimethylarsinezuur
- **Identificatienummer(s)**
- **EC-nummer:** 200-883-4

### RUBRIEK 4: Eerstehulpmaatregelen

- **4.1 Beschrijving van de eerstehulpmaatregelen**

- **Na het inademen:** Frisse lucht toedienen; bij klachten arts ontbieden.
- **Na huidcontact:** Over het algemeen is het produkt niet prikkelend voor de huid
- **Na oogcontact:** Ogen bij geopend ooglid meerdere minuten met stromend water spoelen
- **Na inslikken:** Als de klachten niet minderen, een arts raadplegen
- **4.2 Belangrijkste acute en uitgestelde symptomen en effecten** Geen verdere relevante informatie verkrijgbaar.
- **4.3 Vermelding van de vereiste onmiddellijke medische verzorging en speciale behandeling**  
Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 5: Brandbestrijdingsmaatregelen

- **5.1 Blusmiddelen**

- **Geschikte blusmiddelen:**

CO<sub>2</sub>, bluspoeder of waterstraal. Grotere brand met waterstraal bestrijden of met schuim, dat tegen alcohol bestand is.

- **5.2 Speciale gevaren die door de stof of het mengsel worden veroorzaakt**

Geen verdere relevante informatie verkrijgbaar.

- **5.3 Advies voor brandweertieners**

· **Speciale beschermende kleding:** Geen bijzondere maatregelen nodig.

### RUBRIEK 6: Maatregelen bij het accidenteel vrijkomen van de stof of het mengsel

- **6.1 Persoonlijke voorzorgsmaatregelen, beschermde uitrusting en noodprocedures** Niet nodig.

- **6.2 Milieuvorzorgsmaatregelen:** Niet in de riolering/het oppervlaktewater/het grondwater laten terechtkomen.

- **6.3 Insluifings- en reinigingsmethoden en -materiaal:**

Besmet materiaal zoals afval volgens punt 13 verwijderen.

Voor voldoende ventilatie zorgen.

(Vervolg op blz. 3)

# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

**Handelsnaam: dimethylarsinezuur**

(Vervolg van blz. 2)

- **6.4 Verwijzing naar andere rubrieken**
- Informatie inzake veilig gebruik - zie hoofdstuk 7.*
- Informatie inzake persoonlijke beschermingsuitrusting - zie hoofdstuk 8.*
- Informatie inzake berging - zie hoofdstuk 13.*

### RUBRIEK 7: Hantering en opslag

- **7.1 Voorzorgsmaatregelen voor het veilig hanteren van de stof of het mengsel**
- Voor goede ventilatie/afzuiging op de werkplaatsen zorgen.*
- **Informatie m.b.t. brand- en ontploffingsgevaar:** *Geen bijzondere maatregelen noodzakelijk.*
- **7.2 Voorwaarden voor een veilige opslag, met inbegrip van incompatibele producten**
- **Opslag:**
- **Eisen ten opzichte van opslagruimte en tanks:** *Geen bijzondere eisen.*
- **Informatie m.b.t. gezamenlijke opslag:** *Niet noodzakelijk.*
- **Verdere inlichtingen over eisen m.b.t. de opslag:** *Geen.*
- **7.3 Specifiek eindgebruik** *Geen verdere relevante informatie verkrijgbaar.*

### RUBRIEK 8: Maatregelen ter beheersing van blootstelling/persoonlijke bescherming

- **Aanvullende gegevens m.b.t. de inrichting van technische installaties:** *Geen aanvullende gegevens. Zie 7.*
- **8.1 Controleparameters**
- **Bestanddelen met grenswaarden die m.b.t. de werkruimte in acht genomen moeten worden:** *Vervalt.*
- **Aanvullende gegevens:** *Als basis dienden lijsten die bij opstelling geldig waren.*
- **8.2 Maatregelen ter beheersing van blootstelling**
- **Persoonlijke beschermingsvoorzieningen:**
- **Algemene beschermings- en gezondheidsmaatregelen:**
- Verwijderd houden van eet- en drinkwaren.*
- Vóór de pauze en aan het einde van werktijd handen wassen.*
- **Ademhalingsbescherming:**
- Bij korte of geringe belasting ademfiltertoestel; bij intensieve resp. langdurige expositie een van de omringende lucht onafhankelijk ademhalingstoestel gebruiken.*
- **Handbescherming:**



Veiligheidshandschoenen

- Het handschoenmateriaal moet ondoorlatend en bestand zijn tegen het product / de stof / de bereiding.*
- Op grond van falende testen kan geen aanbeveling voor handschoenmateriaal voor het product / de bereiding / het chemicaliënmengsel afgegeven worden.*
- Kies handschoenmateriaal rekening houdend met de penetratietijden, de permeatiegraden en de degradatie.*
- **Handschoenmateriaal**
  - De keuze van een geschikte handschoen is niet alleen afhankelijk van het materiaal, maar ook van andere kwaliteitskenmerken en verschilt van fabrikant tot fabrikant.*
  - **Doordringingstijd van het handschoenmateriaal**
  - De precieze penetratietijd kunt u te weten komen bij de handschoenfabrikant; houd er rekening mee.*
  - **Oogbescherming:** *Niet noodzakelijk.*

(Vervolg op blz. 4)



# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

Handelsnaam: dimethylarsinezuur

(Vervolg van blz. 3)

## RUBRIEK 9: Fysische en chemische eigenschappen

### · 9.1 Informatie over fysische en chemische basiseigenschappen

#### · Algemene gegevens

#### · Voorkomen:

Vorm: Niet bepaald.

Kleur: Niet bepaald.

· Reuk: Karakteristiek

· Geurdrempelwaarde: Niet bepaald.

· pH-waarde: Niet bepaald.

#### · Toestandsverandering

Smeltpunt/smeltbereik: Niet bepaald.

Kookpunt/kookpuntbereik: Niet bepaald.

· Vlampunt: Niet bruikbaar.

· Ontvlambaarheid (vast, gasvormig): Niet bruikbaar.

#### · Ontstekingstemperatuur:

Ontbindingstemperatuur: Niet bepaald.

· Zelfontsteking: Niet bepaald.

· Ontploffingsgevaar: Het produkt is niet ontploffingsgevaarlijk.

#### · Ontploffingsgrenzen:

Onderste: Niet bepaald.

Bovenste: Niet bepaald.

· Dampspanning: Niet bepaald.

Dichtheid: Niet bepaald.

· Relatieve dichtheid: Niet bepaald.

· Dampdichtheid: Niet bepaald.

· Verdampingssnelheid: Niet bruikbaar.

#### · Oplosbaarheid in/mengbaarheid met

Water: Niet bepaald.

· Verdelingscoëfficiënt (n-octanol/water): Niet bepaald.

#### · Viscositeit

Dynamisch: Niet bepaald.

Kinematisch: Niet bepaald.

· 9.2 Overige informatie: Geen verdere relevante informatie verkrijgbaar.

## RUBRIEK 10: Stabiliteit en reactiviteit

· 10.1 Reactiviteit: Geen verdere relevante informatie verkrijgbaar.

· 10.2 Chemische stabiliteit

· Thermische afbraak / te vermijden omstandigheden: Geen afbraak bij gebruik volgens voorschrift.

· 10.3 Mogelijke gevaarlijke reacties: Geen gevaarlijke reacties bekend.

· 10.4 Te vermijden omstandigheden: Geen verdere relevante informatie verkrijgbaar.

· 10.5 Chemisch op elkaar inwerkende materialen: Geen verdere relevante informatie verkrijgbaar.

(Vervolg op blz. 5)



# Veiligheidsinformatieblad

## volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

**Handelsnaam:** dimethylarsinezuur

(Vervolg van blz. 4)

- **10.6 Gevaarlijke ontledingsproducten:** Geen gevaarlijke ontbindingsproducten bekend.

### RUBRIEK 11: Toxicologische informatie

- **11.1 Informatie over toxicologische effecten**
- **Acute toxiciteit** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Primaire aandoening:**
- **Huidcorrosie/-irritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Ernstig oogletsel/oogirritatie** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Sensibilisatie van de luchtwegen/de huid**  
Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **CMR-effecten (kankerverwekkendheid, mutageniteit en giftigheid voor de voortplanting)**
- **Mutageniteit in geslachtscellen** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Kankerverwekkendheid**  
Verdacht van het veroorzaken van kanker.
- **Giftigheid voor de voortplanting** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij eenmalige blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **STOT bij herhaalde blootstelling** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.
- **Gevaar bij inademing** Gebaseerd op beschikbare gegevens; aan de indelingscriteria is niet voldaan.

### RUBRIEK 12: Ecologische informatie

- **12.1 Toxiciteit**
- **Aquatische toxiciteit:** Geen verdere relevante informatie verkrijgbaar.
- **12.2 Persistentie en afbreekbaarheid** Geen verdere relevante informatie verkrijgbaar.
- **12.3 Bioaccumulatie** Geen verdere relevante informatie verkrijgbaar.
- **12.4 Mobiliteit in de bodem** Geen verdere relevante informatie verkrijgbaar.
- **Verdere ecologische informatie:**
- **Algemene informatie:**  
Waterbezwaarlijkheid (NL) 10: Kan in het aquatisch milieu op lange termijn schadelijke effecten veroorzaken.  
Gevaar voor water klasse 3 (D) (Lijstclassificatie): gevaar voor water groot  
Niet lozen in grondwater, oppervlaktewater of riolering, ook niet in kleine hoeveelheden.  
Gevaar voor drinkwater zelfs bij het uitlopen van zeer geringe hoeveelheden in de ondergrond.
- **12.5 Resultaten van PBT- en zPzB-beoordeling**
- **PBT:** Niet bruikbaar.
- **zPzB:** Niet bruikbaar.
- **12.6 Andere schadelijke effecten** Geen verdere relevante informatie verkrijgbaar.

### RUBRIEK 13: Instructies voor verwijdering

- **13.1 Afvalverwerkingsmethoden**
- **Aanbeveling:** Mag niet tesamen met huisvuil gestort worden of in de riolering terechtkomen.
- **Niet gereinigde verpakkingen:**
- **Aanbeveling:** Afvalverwijdering volgens overheidsbepalingen.

### RUBRIEK 14: Informatie met betrekking tot het vervoer

- **14.1 VN-nummer**
- **ADR, IMDG, IATA**

UNI572

(Vervolg op blz. 6)

# Veiligheidsinformatieblad

volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

Handelsnaam: dimethylarsinezuur

(Vervolg van blz. 5)

- 14.2 Juiste ladingnaam overeenkomstig de modelreglementen van de VN
- ADR 1572 KAKODYLZUUR
- IMDG, IATA CACODYLIC ACID

- 14.3 Transportgevarenklasse(n)
- ADR, IMDG, IATA



- klasse 6.1 Giftige stoffen
- Etiket 6.1

- 14.4 Verpakkingsgroep:
- ADR, IMDG, IATA II

- 14.5 Milieugevaren: Niet bruikbaar.

- 14.6 Bijzondere voorzorgen voor de gebruiker Waarschuwing: Giftige stoffen
- Kemler-getal: 60
- EMS-nummer: 6.1-04
- Segregation groups Acids
- Stowage Category E
- Segregation Code SG35 Stow "separated from" acids.

- 14.7 Vervoer in bulk overeenkomstig bijlage II bij Marpol en de IBC-code Niet bruikbaar.

· Transport/verdere gegevens:

- ADR
- Beperkte hoeveelheden (LQ) 500 g
- Uitgezonderde hoeveelheden (EQ) Code: E4  
Grootste netto hoeveelheid per binnenverpakking: 1 ml  
Grootste netto hoeveelheid per buitenverpakking: 500 ml
- Vervoerscategorie 2
- Tunnelbeperkingscode D/E

- IMDG
- Limited quantities (LQ) 500 g
- Excepted quantities (EQ) Code: E4  
Maximum net quantity per inner packaging: 1 ml  
Maximum net quantity per outer packaging: 500 ml

- VN "Model Regulation": UN 1572 KAKODYLZUUR, 6.1, II

## RUBRIEK 15: Regelgeving

- 15.1 Specifieke veiligheids-, gezondheids- en milieureglementen en -wetgeving voor de stof of het mengsel
- SZW-lijst van kankerverwekkende stoffen De stof is niet aanwezig.
- SZW-lijst van mutagene stoffen De stof is niet aanwezig.
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Vruchtbaarheid De stof is niet aanwezig.
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Ontwikkeling De stof is niet aanwezig.
- NIET-limitatieve lijst van voor de voortplanting giftige stoffen - Borstvoeding De stof is niet aanwezig.

(Vervolg op blz. 7)

**Veiligheidsinformatieblad**  
volgens 1907/2006/EG, Artikel 31

datum van de druk: 01.08.2016

Herziening van: 01.08.2016

**Handelsnaam: dimethylarsinezuur**

(Vervolg van blz. 6)

- **Richtlijn 2012/18/EU**
- **Gevaarlijke stoffen die met naam genoemd worden - BIJLAGE I** De stof is niet aanwezig.
- **Nationale voorschriften:**
- **Gevaarklasse v. water:** Waterbezwaarlijkheid (NL) 10: Saneringsinspanning A
- **15.2 Chemischeveiligheidsbeoordeling:** Een chemische veiligheidsbeoordeling is niet uitgevoerd.

**RUBRIEK 16: Overige informatie**

Deze gegevens zijn gebaseerd op de huidige stand van onze kennis. Zij beschrijven echter geen garantie van produkteigenschappen en vestigen geen contractuele rechtsbetrekking.

**Afkortingen en acroniemen:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Carc. 2: Kankerverwekkendheid – Categorie 2

NL

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

### RUBRIQUE 1: Identification de la substance/du mélange et de la société/l'entreprise

- **1.1 Identificateur de produit**
- **Nom du produit:** acide dimethylarsinique
- **Code du produit:** 12200, 12200-SP, 12201
- **No CAS:**  
75-60-5
- **Numéro CE:**  
200-883-4
- **1.2 Utilisations identifiées pertinentes de la substance ou du mélange et utilisations déconseillées**  
*Pas d'autres informations importantes disponibles.*
- **Emploi de la substance / de la préparation** Produits chimiques pour laboratoires
- **1.3 Renseignements concernant le fournisseur de la fiche de données de sécurité**
- **Producteur/fournisseur:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- **Service chargé des renseignements:** Product safety department
- **1.4 Numéro d'appel d'urgence:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### RUBRIQUE 2: Identification des dangers

- **2.1 Classification de la substance ou du mélange**
- **Classification selon le règlement (CE) n° 1272/2008**



GHS08 danger pour la santé

Carc. 2 H351 Susceptible de provoquer le cancer.

- **2.2 Éléments d'étiquetage**
- **Étiquetage selon le règlement (CE) n° 1272/2008** La substance est classifiée et étiquetée selon le règlement CLP.
- **Pictogrammes de danger**



GHS08

- **Mention d'avertissement** Attention
- **Mentions de danger**  
H351 Susceptible de provoquer le cancer.
- **Conseils de prudence**
  - P280 Porter des gants de protection/des vêtements de protection/un équipement de protection des yeux/du visage.
  - P201 Se procurer les instructions avant utilisation.
  - P202 Ne pas manipuler avant d'avoir lu et compris toutes les précautions de sécurité.
  - P308+P313 EN CAS d'exposition prouvée ou suspectée: consulter un médecin.
  - P405 Garder sous clef.

(suite page 2)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

**Nom du produit:** acide dimethylarsinique

(suite de la page 1)

P501 Éliminer le contenu/récipient conformément à la réglementation locale/régionale/nationale/internationale.

- **2.3 Autres dangers**
- **Résultats des évaluations PBT et vPvB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.

### RUBRIQUE 3: Composition/informations sur les composants

- **3.1 Caractérisation chimique: Substances**
- **No CAS Désignation**  
75-60-5 acide dimethylarsinique
- **Code(s) d'identification**
- **Numéro CE:** 200-883-4

### RUBRIQUE 4: Premiers secours

- **4.1 Description des premiers secours**
- **Après inhalation:** Donner de l'air frais, consulter un médecin en cas de troubles.
- **Après contact avec la peau:** En règle générale, le produit n'irrite pas la peau.
- **Après contact avec les yeux:**  
Rincer les yeux, sous l'eau courante, pendant plusieurs minutes, en écartant bien les paupières.
- **Après ingestion:** Si les troubles persistent, consulter un médecin.
- **4.2 Principaux symptômes et effets, aigus et différés** Pas d'autres informations importantes disponibles.
- **4.3 Indication des éventuels soins médicaux immédiats et traitements particuliers nécessaires**  
Pas d'autres informations importantes disponibles.

### RUBRIQUE 5: Mesures de lutte contre l'incendie

- **5.1 Moyens d'extinction**
- **Moyens d'extinction:**  
CO<sub>2</sub>, poudre d'extinction ou eau pulvérisée. Combattre les foyers importants avec de l'eau pulvérisée ou de la mousse résistante à l'alcool.
- **5.2 Dangers particuliers résultant de la substance ou du mélange**  
Pas d'autres informations importantes disponibles.
- **5.3 Conseils aux pompiers**
- **Équipement spécial de sécurité:** Aucune mesure particulière n'est requise.

### RUBRIQUE 6: Mesures à prendre en cas de dispersion accidentelle

- **6.1 Précautions individuelles, équipement de protection et procédures d'urgence** Pas nécessaire.
- **6.2 Précautions pour la protection de l'environnement:**  
Ne pas rejeter dans les canalisations, dans les eaux de surface et dans les nappes d'eau souterraines.
- **6.3 Méthodes et matériel de confinement et de nettoyage:**  
Evacuer les matériaux contaminés en tant que déchets conformément au point 13.  
Assurer une aération suffisante.
- **6.4 Référence à d'autres rubriques**  
Afin d'obtenir des informations pour une manipulation sûre, consulter le chapitre 7.  
Afin d'obtenir des informations sur les équipements de protection personnels, consulter le chapitre 8.

(suite page 3)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

**Nom du produit:** acide dimethylarsinique

(suite de la page 2)

Afin d'obtenir des informations sur l'élimination, consulter le chapitre 13.

### RUBRIQUE 7: Manipulation et stockage

- **7.1 Précautions à prendre pour une manipulation sans danger**  
Veiller à une bonne ventilation/aspiration du poste de travail.
- **Préventions des incendies et des explosions:** Aucune mesure particulière n'est requise.
- **7.2 Conditions d'un stockage sûr, y compris d'éventuelles incompatibilités**
- **Stockage:**
- **Exigences concernant les lieux et conteneurs de stockage:** Aucune exigence particulière.
- **Indications concernant le stockage commun:** Pas nécessaire.
- **Autres indications sur les conditions de stockage:** Néant.
- **7.3 Utilisation(s) finale(s) particulière(s)** Pas d'autres informations importantes disponibles.

### RUBRIQUE 8: Contrôles de l'exposition/protection individuelle

- **Indications complémentaires pour l'agencement des installations techniques:**  
Sans autre indication, voir point 7.
- **8.1 Paramètres de contrôle**
- **Composants présentant des valeurs-seuil à surveiller par poste de travail:** Néant
- **Remarques supplémentaires:**  
Le présent document s'appuie sur les listes en vigueur au moment de son élaboration.
- **8.2 Contrôles de l'exposition**
- **Equipement de protection individuel:**
- **Mesures générales de protection et d'hygiène:**  
Tenir à l'écart des produits alimentaires, des boissons et de la nourriture pour animaux.  
Se laver les mains avant les pauses et en fin de travail.
- **Protection respiratoire:**  
En cas d'exposition faible ou de courte durée, utiliser un filtre respiratoire; en cas d'exposition intense ou durable, utiliser un appareil de respiration indépendant de l'air ambiant.
- **Protection des mains:**



Gants de protection

- Le matériau des gants doit être imperméable et résistant au produit / à la substance / à la préparation.  
À cause du manque de tests, aucune recommandation pour un matériau de gants pour le produit / la préparation / le mélange de produits chimiques ne peut être donnée.  
Choix du matériau des gants en fonction des temps de pénétration, du taux de perméabilité et de la dégradation.
- **Matériau des gants**  
Le choix de gants appropriés ne dépend pas seulement du matériau, mais également d'autres critères de qualité qui peuvent varier d'un fabricant à l'autre.
  - **Temps de pénétration du matériau des gants**  
Le temps de pénétration exact est à déterminer par le fabricant des gants de protection et à respecter.
  - **Protection des yeux:** Pas nécessaire.

FR

(suite page 4)

# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

Nom du produit: acide dimethylarsinique

(suite de la page 3)

### RUBRIQUE 9: Propriétés physiques et chimiques

#### · 9.1 Informations sur les propriétés physiques et chimiques essentielles

##### · Indications générales

##### · Aspect:

*Forme:* Non déterminé.

*Couleur:* Non déterminé.

· *Odeur:* Caractéristique

· *Seuil olfactif:* Non déterminé.

· *valeur du pH:* Non déterminé.

##### · Changement d'état

*Point de fusion:* Non déterminé.

*Point d'ébullition:* Non déterminé.

· *Point d'éclair* Non applicable.

· *Inflammabilité (solide, gazeux):* Non applicable.

##### · Température d'inflammation:

*Température de décomposition:* Non déterminé.

· *Auto-inflammation:* Non déterminé.

· *Danger d'explosion:* Le produit n'est pas explosif.

##### · Limites d'explosion:

*Inférieure:* Non déterminé.

*Supérieure:* Non déterminé.

· *Pression de vapeur:* Non déterminé.

· *Densité:* Non déterminée.

· *Densité relative* Non déterminé.

· *Densité de vapeur.* Non déterminé.

· *Vitesse d'évaporation* Non applicable.

· *Solubilité dans/miscibilité avec l'eau:*

Non déterminé.

· *Coefficient de partage (n-octanol/eau):* Non déterminé.

##### · Viscosité:

*Dynamique:* Non déterminé.

*Cinématique:* Non déterminé.

· **9.2 Autres informations** Pas d'autres informations importantes disponibles.

### RUBRIQUE 10: Stabilité et réactivité

· **10.1 Réactivité** Pas d'autres informations importantes disponibles.

· **10.2 Stabilité chimique**

· **Décomposition thermique/conditions à éviter:** Pas de décomposition en cas d'usage conforme.

· **10.3 Possibilité de réactions dangereuses** Aucune réaction dangereuse connue.

· **10.4 Conditions à éviter** Pas d'autres informations importantes disponibles.

· **10.5 Matières incompatibles:** Pas d'autres informations importantes disponibles.

(suite page 5)



# Fiche de données de sécurité

## selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

**Nom du produit:** acide dimethylarsinique

(suite de la page 4)

· **10.6 Produits de décomposition dangereux:** Pas de produits de décomposition dangereux connus

### RUBRIQUE 11: Informations toxicologiques

- **11.1 Informations sur les effets toxicologiques**
- **Toxicité aiguë** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effet primaire d'irritation:**
- **Corrosion cutanée/irritation cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Lésions oculaires graves/irritation oculaire**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Sensibilisation respiratoire ou cutanée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Effets CMR (cancérogène, mutagène et toxique pour la reproduction)**
- **Mutagenicité sur les cellules germinales**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Cancérogénicité**  
Susceptible de provoquer le cancer.
- **Toxicité pour la reproduction**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition unique**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Toxicité spécifique pour certains organes cibles - exposition répétée**  
Compte tenu des données disponibles, les critères de classification ne sont pas remplis.
- **Danger par aspiration** Compte tenu des données disponibles, les critères de classification ne sont pas remplis.

### RUBRIQUE 12: Informations écologiques

- **12.1 Toxicité**
- **Toxicité aquatique:** Pas d'autres informations importantes disponibles.
- **12.2 Persistance et dégradabilité** Pas d'autres informations importantes disponibles.
- **12.3 Potentiel de bioaccumulation** Pas d'autres informations importantes disponibles.
- **12.4 Mobilité dans le sol** Pas d'autres informations importantes disponibles.
- **Autres indications écologiques:**
- **Indications générales:**  
Catégorie de pollution des eaux 3 (D) (classification selon liste): très polluant  
Ne pas laisser pénétrer dans la nappe phréatique, les eaux ou les canalisations, même pas en petite quantité.  
Danger pour l'eau potable dès fuite d'une quantité minimale dans le sous-sol.
- **12.5 Résultats des évaluations PBT et VPVB**
- **PBT:** Non applicable.
- **vPvB:** Non applicable.
- **12.6 Autres effets néfastes** Pas d'autres informations importantes disponibles.

### RUBRIQUE 13: Considérations relatives à l'élimination

- **13.1 Méthodes de traitement des déchets**
- **Recommandation:** Ne doit pas être évacué avec les ordures ménagères. Ne pas laisser pénétrer dans les égouts.

(suite page 6)



**Fiche de données de sécurité**  
selon 1907/2006/CE, Article 31

Date d'impression : 01.08.2016

Révision: 01.08.2016

Nom du produit: acide dimethylarsinique

(suite de la page 5)

- **Emballages non nettoyés:**
- **Recommandation:** Evacuation conformément aux prescriptions légales.

### RUBRIQUE 14: Informations relatives au transport

- **14.1 Numéro ONU**
- **ADR, IMDG, IATA**

UN1572

- **14.2 Désignation officielle de transport de l'ONU**

- **ADR**
- **IMDG, IATA**

1572 ACIDE CACODYLIQUE  
CACODYLIC ACID

- **14.3 Classe(s) de danger pour le transport**

- **ADR, IMDG, IATA**



- **Classe**
- **Étiquette**

6.1 Matières toxiques.  
6.1

- **14.4 Groupe d'emballage**

- **ADR, IMDG, IATA**

II

- **14.5 Dangers pour l'environnement:**

Non applicable.

- **14.6 Précautions particulières à prendre par l'utilisateur**

Attention: Matières toxiques.

- **Indice Kemler:**
- **No EMS:**
- **Segregation groups**
- **Stowage Category**
- **Segregation Code**

60  
6.1-04  
Acids  
E  
SG35 Stow "separated from" acids.

- **14.7 Transport en vrac conformément à l'annexe II de la convention Marpol et au recueil IBC**

Non applicable.

- **Indications complémentaires de transport:**

- **ADR**

- **Quantités limitées (LQ)**
- **Quantités exceptées (EQ)**

500 g  
Code: E4  
Quantité maximale nette par emballage intérieur: 1 ml  
Quantité maximale nette par emballage extérieur: 500 ml

- **Catégorie de transport**
- **Code de restriction en tunnels**

2  
D/E

- **IMDG**

- **Limited quantities (LQ)**
- **Excepted quantities (EQ)**

500 g  
Code: E4  
Maximum net quantity per inner packaging: 1 ml  
Maximum net quantity per outer packaging: 500 ml

(suite page 7)

**Fiche de données de sécurité**  
**selon 1907/2006/CE, Article 31**

Date d'impression : 01.08.2016

Révision: 01.08.2016

**Nom du produit: acide dimethylarsinique**

(suite de la page 6)

· "Règlement type" de l'ONU:

UN 1572 ACIDE CACODYLIQUE, 6.1, II

**RUBRIQUE 15: Informations relatives à la réglementation**

- **15.1 Réglementations/législation particulières à la substance ou au mélange en matière de sécurité, de santé et d'environnement**
- **Directive 2012/18/UE**
- **Substances dangereuses désignées - ANNEXE I** la substance n'est pas comprise
- **15.2 Évaluation de la sécurité chimique:** Une évaluation de la sécurité chimique n'a pas été réalisée.

**RUBRIQUE 16: Autres informations**

Ces indications sont fondées sur l'état actuel de nos connaissances, mais ne constituent pas une garantie quant aux propriétés du produit et ne donnent pas lieu à un rapport juridique contractuel.

· **Acronymes et abréviations:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Cancérogénicité – Catégorie 2

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

### ABSCHNITT 1: Bezeichnung des Stoffs beziehungsweise des Gemischs und des Unternehmens

- **1.1 Produktidentifikator**
- **Handelsname:** Dimethylarsinsäure
- **Artikelnummer:** 12200, 12200-SP, 12201
- **CAS-Nummer:**  
75-60-5
- **EG-Nummer:**  
200-883-4
- **1.2 Relevante identifizierte Verwendungen des Stoffs oder Gemischs und Verwendungen, von denen abgeraten wird**  
Keine weiteren relevanten Informationen verfügbar.
- **Verwendung des Stoffes / des Gemisches** Laborchemikalien
- **1.3 Einzelheiten zum Lieferanten, der das Sicherheitsdatenblatt bereitstellt**
- **Hersteller/Lieferant:**  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com  
  
Science Services GmbH  
Unterhachinger Str. 75  
81737 München Germany  
Tel: +49(0)89 18 93 668-0  
safety@scienceservices.de  
  
24h Giftnotruf Munchen: +49 (0)89 19240  
Toxikologische Abteilung der II. Medizinischen Klinik  
rechts der Isar, Munchen. - www.toxinfo.org
- **Auskunftgebender Bereich:** Product safety department
- **1.4 Notrufnummer:**  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### ABSCHNITT 2: Mögliche Gefahren

- **2.1 Einstufung des Stoffs oder Gemischs**
- **Einstufung gemäß Verordnung (EG) Nr. 1272/2008**



GHS08 Gesundheitsgefahr

Carc. 2 H351 Kann vermutlich Krebs erzeugen.

- **2.2 Kennzeichnungselemente**
- **Kennzeichnung gemäß Verordnung (EG) Nr. 1272/2008**  
Der Stoff ist gemäß CLP-Verordnung eingestuft und gekennzeichnet.

(Fortsetzung auf Seite 2)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

**Handelsname: Dimethylarsinsäure**

(Fortsetzung von Seite 1)

**· Gefahrenpiktogramme**

GHS08

**· Signalwort Achtung****· Gefahrenhinweise***H351 Kann vermutlich Krebs erzeugen.***· Sicherheitshinweise***P280 Schutzhandschuhe/Schutzkleidung/Augenschutz/Gesichtsschutz tragen.**P201 Vor Gebrauch besondere Anweisungen einholen.**P202 Vor Gebrauch alle Sicherheitshinweise lesen und verstehen.**P308+P313 BEI Exposition oder falls betroffen: Ärztlichen Rat einholen/ärztliche Hilfe hinzuziehen.**P405 Unter Verschluss aufbewahren.**P501 Entsorgung des Inhalts / des Behälters gemäß den örtlichen / regionalen / nationalen / internationalen Vorschriften.***· 2.3 Sonstige Gefahren****· Ergebnisse der PBT- und vPvB-Bewertung****· PBT:** Nicht anwendbar.**· vPvB:** Nicht anwendbar.

### ABSCHNITT 3: Zusammensetzung/Angaben zu Bestandteilen

**· 3.1 Chemische Charakterisierung: Stoffe****· CAS-Nr. Bezeichnung***75-60-5 Dimethylarsinsäure***· Identifikationsnummer(n)****· EG-Nummer:** 200-883-4

### ABSCHNITT 4: Erste-Hilfe-Maßnahmen

**· 4.1 Beschreibung der Erste-Hilfe-Maßnahmen****· Nach Einatmen:** Frischluftzufuhr, bei Beschwerden Arzt aufsuchen.**· Nach Hautkontakt:** Im allgemeinen ist das Produkt nicht hautreizend.**· Nach Augenkontakt:** Augen bei geöffnetem Lidspalt mehrere Minuten mit fließendem Wasser spülen.**· Nach Verschlucken:** Bei anhaltenden Beschwerden Arzt konsultieren.**· 4.2 Wichtigste akute und verzögert auftretende Symptome und Wirkungen***Keine weiteren relevanten Informationen verfügbar.***· 4.3 Hinweise auf ärztliche Soforthilfe oder Spezialbehandlung***Keine weiteren relevanten Informationen verfügbar.*

### ABSCHNITT 5: Maßnahmen zur Brandbekämpfung

**· 5.1 Löschmittel****· Geeignete Löschmittel:***CO<sub>2</sub>, Löschpulver oder Wassersprühstrahl. Größeren Brand mit Wassersprühstrahl oder alkoholbeständigem Schaum bekämpfen.***· 5.2 Besondere vom Stoff oder Gemisch ausgehende Gefahren***Keine weiteren relevanten Informationen verfügbar.*

(Fortsetzung auf Seite 3)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

**Handelsname:** Dimethylarsinsäure

(Fortsetzung von Seite 2)

- **5.3 Hinweise für die Brandbekämpfung**
- **Besondere Schutzausrüstung:** Keine besonderen Maßnahmen erforderlich.

### ABSCHNITT 6: Maßnahmen bei unbeabsichtigter Freisetzung

- **6.1 Personenbezogene Vorsichtsmaßnahmen, Schutzausrüstungen und in Notfällen anzuwendende Verfahren**  
Nicht erforderlich.
- **6.2 Umweltschutzmaßnahmen:** Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **6.3 Methoden und Material für Rückhaltung und Reinigung:**  
Kontaminiertes Material als Abfall nach Abschnitt 13 entsorgen.  
Für ausreichende Lüftung sorgen.
- **6.4 Verweis auf andere Abschnitte**  
Informationen zur sicheren Handhabung siehe Abschnitt 7.  
Informationen zur persönlichen Schutzausrüstung siehe Abschnitt 8.  
Informationen zur Entsorgung siehe Abschnitt 13.

### ABSCHNITT 7: Handhabung und Lagerung

- **7.1 Schutzmaßnahmen zur sicheren Handhabung** Für gute Belüftung/Absaugung am Arbeitsplatz sorgen.
- **Hinweise zum Brand- und Explosionsschutz:** Keine besonderen Maßnahmen erforderlich.
- **7.2 Bedingungen zur sicheren Lagerung unter Berücksichtigung von Unverträglichkeiten**
- **Lagerung:**
- **Anforderung an Lagerräume und Behälter:** Keine besonderen Anforderungen.
- **Zusammenlagerungshinweise:** Nicht erforderlich.
- **Weitere Angaben zu den Lagerbedingungen:** Keine.
- **Lagerklasse:**
- **Klassifizierung nach Betriebssicherheitsverordnung (BetrSichV):** -
- **7.3 Spezifische Endanwendungen** Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 8: Begrenzung und Überwachung der Exposition/Persönliche Schutzausrüstungen

- **Zusätzliche Hinweise zur Gestaltung technischer Anlagen:** Keine weiteren Angaben, siehe Abschnitt 7.
- **8.1 Zu überwachende Parameter**
- **Bestandteile mit arbeitsplatzbezogenen, zu überwachenden Grenzwerten:** Entfällt.
- **Zusätzliche Hinweise:** Als Grundlage dienen die bei der Erstellung gültigen Listen.
- **8.2 Begrenzung und Überwachung der Exposition**
- **Persönliche Schutzausrüstung:**
- **Allgemeine Schutz- und Hygienemaßnahmen:**  
Von Nahrungsmitteln, Getränken und Futtermitteln fernhalten.  
Vor den Pausen und bei Arbeitsende Hände waschen.
- **Atemschutz:**  
Bei kurzzeitiger oder geringer Belastung Atemfiltergerät; bei intensiver bzw. längerer Exposition unluftunabhängiges Atemschutzgerät verwenden.
- **Handschutz:**



Schutzhandschuhe

(Fortsetzung auf Seite 4)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

**Handelsname: Dimethylarsinsäure**

(Fortsetzung von Seite 3)

Das Handschuhmaterial muss undurchlässig und beständig gegen das Produkt / den Stoff / die Zubereitung sein. Aufgrund fehlender Tests kann keine Empfehlung zum Handschuhmaterial für das Produkt / die Zubereitung / das Chemikaliengemisch abgegeben werden.

Auswahl des Handschuhmaterials unter Beachtung der Durchbruchzeiten, Permeationsraten und der Degradation.

- **Handschuhmaterial**

Die Auswahl eines geeigneten Handschuhs ist nicht nur vom Material, sondern auch von weiteren Qualitätsmerkmalen abhängig und von Hersteller zu Hersteller unterschiedlich.

- **Durchdringungszeit des Handschuhmaterials**

Die genaue Durchbruchzeit ist beim Schutzhandschuhhersteller zu erfahren und einzuhalten.

- **Augenschutz:** Nicht erforderlich.

### ABSCHNITT 9: Physikalische und chemische Eigenschaften

- **9.1 Angaben zu den grundlegenden physikalischen und chemischen Eigenschaften**

- **Allgemeine Angaben**

- **Aussehen:**

**Form:** Nicht bestimmt.

**Farbe:** Nicht bestimmt.

- **Geruch:** Charakteristisch

- **Geruchsschwelle:** Nicht bestimmt.

- **pH-Wert:** Nicht bestimmt.

- **Zustandsänderung**

**Schmelzpunkt/Schmelzbereich:** Nicht bestimmt.

**Siedepunkt/Siedebereich:** Nicht bestimmt.

- **Flammpunkt:** Nicht anwendbar.

- **Entzündlichkeit (fest, gasförmig):** Nicht anwendbar.

- **Zündtemperatur:**

**Zersetzungstemperatur:** Nicht bestimmt.

- **Selbstentzündlichkeit:** Nicht bestimmt.

- **Explosionsgefahr:** Das Produkt ist nicht explosionsgefährlich.

- **Explosionsgrenzen:**

**Untere:** Nicht bestimmt.

**Obere:** Nicht bestimmt.

- **Dampfdruck:** Nicht bestimmt.

- **Dichte:** Nicht bestimmt.

- **Relative Dichte:** Nicht bestimmt.

- **Dampfdichte:** Nicht bestimmt.

- **Verdampfungsgeschwindigkeit:** Nicht anwendbar.

- **Löslichkeit in / Mischbarkeit mit**

**Wasser:** Nicht bestimmt.

- **Verteilungskoeffizient (n-Octanol/Wasser):** Nicht bestimmt.

- **Viskosität:**

**Dynamisch:** Nicht bestimmt.

**Kinematisch:** Nicht bestimmt.

(Fortsetzung auf Seite 5)

# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

**Handelsname:** Dimethylarsinsäure

(Fortsetzung von Seite 4)

**· 9.2 Sonstige Angaben**

Keine weiteren relevanten Informationen verfügbar.

### ABSCHNITT 10: Stabilität und Reaktivität

- **10.1 Reaktivität** Keine weiteren relevanten Informationen verfügbar.
- **10.2 Chemische Stabilität**
- **Thermische Zersetzung / zu vermeidende Bedingungen:**  
Keine Zersetzung bei bestimmungsgemäßer Verwendung.
- **10.3 Möglichkeit gefährlicher Reaktionen** Keine gefährlichen Reaktionen bekannt.
- **10.4 Zu vermeidende Bedingungen** Keine weiteren relevanten Informationen verfügbar.
- **10.5 Unverträgliche Materialien:** Keine weiteren relevanten Informationen verfügbar.
- **10.6 Gefährliche Zersetzungsprodukte:** Keine gefährlichen Zersetzungsprodukte bekannt.

### ABSCHNITT 11: Toxikologische Angaben

- **11.1 Angaben zu toxikologischen Wirkungen**
- **Akute Toxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Primäre Reizwirkung:**
- **Ätz-/Reizwirkung auf die Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Schwere Augenschädigung/-reizung** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Sensibilisierung der Atemwege/Haut** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **CMR-Wirkungen (krebserzeugende, erbgutverändernde und fortpflanzungsgefährdende Wirkung)**
- **Keimzell-Mutagenität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Karzinogenität**  
Kann vermutlich Krebs erzeugen.
- **Reproduktionstoxizität** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei einmaliger Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Spezifische Zielorgan-Toxizität bei wiederholter Exposition**  
Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.
- **Aspirationsgefahr** Aufgrund der verfügbaren Daten sind die Einstufungskriterien nicht erfüllt.

### ABSCHNITT 12: Umweltbezogene Angaben

- **12.1 Toxizität**
- **Aquatische Toxizität:** Keine weiteren relevanten Informationen verfügbar.
- **12.2 Persistenz und Abbaubarkeit** Keine weiteren relevanten Informationen verfügbar.
- **12.3 Bioakkumulationspotenzial** Keine weiteren relevanten Informationen verfügbar.
- **12.4 Mobilität im Boden** Keine weiteren relevanten Informationen verfügbar.
- **Weitere ökologische Hinweise:**
- **Allgemeine Hinweise:**  
Wassergefährdungsklasse 3 (Listeneinstufung): stark wassergefährdend  
Nicht in das Grundwasser, in Gewässer oder in die Kanalisation gelangen lassen, auch nicht in kleinen Mengen.  
Trinkwassergefährdung bereits beim Auslaufen geringster Mengen in den Untergrund.
- **12.5 Ergebnisse der PBT- und vPvB-Beurteilung**
- **PBT:** Nicht anwendbar.
- **vPvB:** Nicht anwendbar.
- **12.6 Andere schädliche Wirkungen** Keine weiteren relevanten Informationen verfügbar.

DE

(Fortsetzung auf Seite 6)



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016


Handelsname: Dimethylarsinsäure

(Fortsetzung von Seite 5)

### ABSCHNITT 13: Hinweise zur Entsorgung

- **13.1 Verfahren der Abfallbehandlung**
- **Empfehlung:** Darf nicht zusammen mit Hausmüll entsorgt werden. Nicht in die Kanalisation gelangen lassen.
- **Ungereinigte Verpackungen:**
- **Empfehlung:** Entsorgung gemäß den behördlichen Vorschriften.

### ABSCHNITT 14: Angaben zum Transport

- |   |  |
|---|--|
| <b>· 14.1 UN-Nummer</b>   | UN1572   |
| <b>· ADR, IMDG, IATA</b>  |  |
| <b>· 14.2 Ordnungsgemäße UN-Versandbezeichnung</b>  |  |
| <b>· ADR</b>  | 1572 KAKODYLSÄURE  |
| <b>· IMDG, IATA</b>   | CACODYLIC ACID   |
| <b>· 14.3 Transportgefahrenklassen</b>  |  |
| <b>· ADR, IMDG, IATA</b>  |  |
|                |  |
| <b>· Klasse</b>   | 6.1 Giftige Stoffe   |
| <b>· Gefahrzettel</b>   | 6.1  |
| <b>· 14.4 Verpackungsgruppe</b>   |  |
| <b>· ADR, IMDG, IATA</b>  | II   |
| <b>· 14.5 Umweltgefahren:</b>   | Nicht anwendbar.   |
| <b>· 14.6 Besondere Vorsichtsmaßnahmen für den Verwender</b>                                    | Achtung: Giftige Stoffe  |
| <b>· Kemler-Zahl:</b>   | 60   |
| <b>· EMS-Nummer:</b>  | 6.1-04   |
| <b>· Segregation groups</b>   | Acids  |
| <b>· Stowage Category</b>   | E  |
| <b>· Segregation Code</b>   | SG35 Stow "separated from" acids.  |
| <b>· 14.7 Massengutbeförderung gemäß Anhang II des MARPOL-Übereinkommens und gemäß IBC-Code</b> | Nicht anwendbar.   |
| <b>· Transport/weitere Angaben:</b>   |  |
| <hr style="border-top: 1px dashed #000;"/>  |  |
| <b>· ADR</b>  |  |
| <b>· Begrenzte Menge (LQ)</b>   | 500 g  |
| <b>· Freigestellte Mengen (EQ)</b>  | Code: E4<br>Höchste Nettomenge je Innenverpackung: 1 ml<br>Höchste Nettomenge je Außenverpackung: 500 ml |
| <b>· Beförderungskategorie</b>  | 2  |
| <b>· Tunnelbeschränkungscode</b>  | D/E  |
| <hr style="border-top: 1px dashed #000;"/>  |  |
| <b>· IMDG</b>   |  |
| <b>· Limited quantities (LQ)</b>  | 500 g  |

(Fortsetzung auf Seite 7)



# Sicherheitsdatenblatt

## gemäß 1907/2006/EG, Artikel 31

Druckdatum: 01.08.2016

überarbeitet am: 01.08.2016

**Handelsname: Dimethylarsinsäure**

(Fortsetzung von Seite 6)

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>· <b>Excepted quantities (EQ)</b></li> </ul> | <p><i>Code: E4</i></p> <p><i>Maximum net quantity per inner packaging: 1 ml</i></p> <p><i>Maximum net quantity per outer packaging: 500 ml</i></p> |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | <p><i>UN 1572 KAKODYLSÄURE, 6.1, II</i></p>  |

### ABSCHNITT 15: Rechtsvorschriften

- **15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder das Gemisch**
- **Richtlinie 2012/18/EU**
- **Namentlich aufgeführte gefährliche Stoffe - ANHANG I** Der Stoff ist nicht enthalten.
- **Nationale Vorschriften:**
- **Wassergefährdungsklasse: WGK 3 (Listeneinstufung):** stark wassergefährdend.
- **15.2 Stoffsicherheitsbeurteilung:** Eine Stoffsicherheitsbeurteilung wurde nicht durchgeführt.

### ABSCHNITT 16: Sonstige Angaben

*Die Angaben stützen sich auf den heutigen Stand unserer Kenntnisse, sie stellen jedoch keine Zusicherung von Produkteigenschaften dar und begründen kein vertragliches Rechtsverhältnis.*

- **Abkürzungen und Akronyme:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*GHS: Globally Harmonised System of Classification and Labelling of Chemicals*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Carc. 2: Karzinogenität – Kategorie 2*

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 01.08.2016

Revisione: 01.08.2016

### SEZIONE 1: Identificazione della sostanza o della miscela e della società/impresa

· **1.1 Identificatore del prodotto**

· **Denominazione commerciale:** acido dimetilarsinico

· **Articolo numero:** 12200, 12200-SP, 12201

· **Numero CAS:**

75-60-5

· **Numeri CE:**

200-883-4

· **1.2 Usi identificati pertinenti della sostanza o della miscela e usi sconsigliati**

Non sono disponibili altre informazioni.

· **Utilizzazione della Sostanza / del Preparato** Prodotti chimici per laboratorio

· **1.3 Informazioni sul fornitore della scheda di dati di sicurezza**

· **Produttore/fornitore:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [sgkcck@aol.com](mailto:sgkcck@aol.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

Societa Italiana Chimici

Via Rio Nell Ellba 140

00138 Rome, Italy

Tel: 39 06 8800211

Fax: 39 30 06 8815313

Web: [www.sichim.com](http://www.sichim.com)

· **Informazioni fornite da:** Product safety department

· **1.4 Numero telefonico di emergenza:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SEZIONE 2: Identificazione dei pericoli

· **2.1 Classificazione della sostanza o della miscela**

· **Classificazione secondo il regolamento (CE) n. 1272/2008**



GHS08 pericolo per la salute

Carc. 2 H351 Sospettato di provocare il cancro.

· **2.2 Elementi dell'etichetta**

· **Etichettatura secondo il regolamento (CE) n. 1272/2008**

La sostanza è classificata ed etichettata conformemente al regolamento CLP.

· **Pittogrammi di pericolo**



GHS08

· **Avvertenza** Attenzione

· **Indicazioni di pericolo**

H351 Sospettato di provocare il cancro.

(continua a pagina 2)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 01.08.2016

Revisione: 01.08.2016

**Denominazione commerciale: acido dimetilarsinico**

(Segue da pagina 1)

· **Consigli di prudenza**

- P280 *Indossare guanti/indumenti protettivi/Proteggere gli occhi/il viso.*
- P201 *Procurarsi istruzioni specifiche prima dell'uso.*
- P202 *Non manipolare prima di avere letto e compreso tutte le avvertenze.*
- P308+P313 *IN CASO di esposizione o di possibile esposizione, consultare un medico.*
- P405 *Conservare sotto chiave.*
- P501 *Smaltire il prodotto/recipiente in conformità con le disposizioni locali / regionali / nazionali / internazionali.*

· **2.3 Altri pericoli**

· **Risultati della valutazione PBT e vPvB**

- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.

**SEZIONE 3: Composizione/informazioni sugli ingredienti**

· **3.1 Caratteristiche chimiche: Sostanze**

- **Numero CAS**  
75-60-5 acido dimetilarsinico
- **Numeroli di identificazione**
- **Numeri CE:** 200-883-4

**SEZIONE 4: Misure di primo soccorso**

· **4.1 Descrizione delle misure di primo soccorso**

- **Inalazione:** Portare in zona ben areata, in caso di disturbi consultare il medico.
- **Contatto con la pelle:** Generalmente il prodotto non è irritante per la pelle.
- **Contatto con gli occhi:** Lavare con acqua corrente per alcuni minuti tenendo le palpebre ben aperte.
- **Ingestione:** Se il dolore persiste consultare il medico.
- **4.2 Principali sintomi ed effetti, sia acuti che ritardati** Non sono disponibili altre informazioni.
- **4.3 Indicazione dell'eventuale necessità di consultare immediatamente un medico e di trattamenti speciali**  
Non sono disponibili altre informazioni.

**SEZIONE 5: Misure antincendio**

· **5.1 Mezzi di estinzione**

· **Mezzi di estinzione idonei:**

*CO<sub>2</sub>, polvere o acqua nebulizzata. Estinguere gli incendi di grosse dimensioni con acqua nebulizzata o con schiuma resistente all'alcool.*

· **5.2 Pericoli speciali derivanti dalla sostanza o dalla miscela** Non sono disponibili altre informazioni.

· **5.3 Raccomandazioni per gli addetti all'estinzione degli incendi**

- **Mezzi protettivi specifici:** Non sono richiesti provvedimenti particolari.

**SEZIONE 6: Misure in caso di rilascio accidentale**

· **6.1 Precauzioni personali, dispositivi di protezione e procedure in caso di emergenza** Non necessario.

· **6.2 Precauzioni ambientali:** Impedire infiltrazioni nella fognatura/nelle acque superficiali/nelle acque freatiche.

· **6.3 Metodi e materiali per il contenimento e per la bonifica:**

*Smaltimento del materiale contaminato conformemente al punto 13.*

*Provvedere ad una sufficiente areazione.*

· **6.4 Riferimento ad altre sezioni**

*Per informazioni relative ad un manipolazione sicura, vedere capitolo 7.*

(continua a pagina 3)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 01.08.2016

Revisione: 01.08.2016

**Denominazione commerciale:** acido dimetilarsinico

(Segue da pagina 2)

Per informazioni relative all'equipaggiamento protettivo ad uso personale vedere Capitolo 8.  
Per informazioni relative allo smaltimento vedere Capitolo 13.

### SEZIONE 7: Manipolazione e immagazzinamento

- **7.1 Precauzioni per la manipolazione sicura** Accurata ventilazione/aspirazione nei luoghi di lavoro.
- **Indicazioni in caso di incendio ed esplosione:** Non sono richiesti provvedimenti particolari.
- **7.2 Condizioni per lo stoccaggio sicuro, comprese eventuali incompatibilità**
- **Stoccaggio:**
- **Requisiti dei magazzini e dei recipienti:** Non sono richiesti requisiti particolari.
- **Indicazioni sullo stoccaggio misto:** Non necessario.
- **Ulteriori indicazioni relative alle condizioni di immagazzinamento:** Nessuno.
- **7.3 Usi finali particolari** Non sono disponibili altre informazioni.

### SEZIONE 8: Controllo dell'esposizione/protezione individuale

- **Ulteriori indicazioni sulla struttura di impianti tecnici:** Nessun dato ulteriore, vedere punto 7.
- **8.1 Parametri di controllo**
- **Componenti i cui valori limite devono essere tenuti sotto controllo negli ambienti di lavoro:** Non Necessario.
- **Ulteriori indicazioni:** Le liste valide alla data di compilazione sono state usate come base.
- **8.2 Controlli dell'esposizione**
- **Mezzi protettivi individuali:**
- **Norme generali protettive e di igiene del lavoro:**  
Tenere lontano da cibo, bevande e foraggi.  
Lavarsi le mani prima dell'intervallo o a lavoro terminato.
- **Maschera protettiva:**  
Nelle esposizioni brevi e minime utilizzare la maschera; nelle esposizioni più intense e durature indossare l'autorespiratore.
- **Guanti protettivi:**



Guanti protettivi

Il materiale dei guanti deve essere impermeabile e stabile contro il prodotto/ la sostanza/ la formulazione.  
A causa della mancanza di tests non può essere consigliato alcun tipo di materiale per i guanti con cui manipolare il prodotto / la formulazione / la miscela di sostanze chimiche.  
Scelta del materiale dei guanti in considerazione dei tempi di passaggio, dei tassi di permeazione e della degradazione.

- **Materiale dei guanti**  
La scelta dei guanti adatti non dipende soltanto dal materiale bensì anche da altre caratteristiche di qualità variabili da un produttore a un altro.
- **Tempo di permeazione del materiale dei guanti**  
Richiedere dal fornitore dei guanti il tempo di passaggio preciso il quale deve essere rispettato.
- **Occhiali protettivi:** Non necessario.

IT

(continua a pagina 4)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 01.08.2016

Revisione: 01.08.2016

Denominazione commerciale: acido dimetilarsinico

(Segue da pagina 3)

### SEZIONE 9: Proprietà fisiche e chimiche

#### · 9.1 Informazioni sulle proprietà fisiche e chimiche fondamentali

##### · Indicazioni generali

##### · Aspetto:

**Forma:** Non definito.

**Colore:** Non definito.

· **Odore:** Caratteristico

· **Soglia olfattiva:** Non definito.

· **valori di pH:** Non definito.

##### · Cambiamento di stato

**Temperatura di fusione/ambito di fusione:** Non definito.

**Temperatura di ebollizione/ambito di ebollizione:** Non definito.

· **Punto di infiammabilità:** Non applicabile.

· **Infiammabilità (solido, gassoso):** Non applicabile.

##### · Temperatura di accensione:

**Temperatura di decomposizione:** Non definito.

· **Autoaccensione:** Non definito.

· **Pericolo di esplosione:** Prodotto non esplosivo.

##### · Limiti di infiammabilità:

**Inferiore:** Non definito.

**Superiore:** Non definito.

· **Tensione di vapore:** Non definito.

· **Densità:** Non definito.

· **Densità relativa** Non definito.

· **Densità del vapore** Non definito.

· **Velocità di evaporazione** Non applicabile.

##### · Solubilità in/Miscibilità con acqua:

Non definito.

· **Coefficiente di distribuzione (n-Octanol/acqua):** Non definito.

##### · Viscosità:

**Dinamica:** Non definito.

**Cinematica:** Non definito.

· **9.2 Altre informazioni** Non sono disponibili altre informazioni.

### SEZIONE 10: Stabilità e reattività

· **10.1 Reattività** Non sono disponibili altre informazioni.

#### · 10.2 Stabilità chimica

· **Decomposizione termica/ condizioni da evitare:** Il prodotto non si decompone se utilizzato secondo le norme.

· **10.3 Possibilità di reazioni pericolose** Non sono note reazioni pericolose.

· **10.4 Condizioni da evitare** Non sono disponibili altre informazioni.

· **10.5 Materiali incompatibili:** Non sono disponibili altre informazioni.

(continua a pagina 5)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 01.08.2016

Revisione: 01.08.2016

**Denominazione commerciale:** acido dimetilarsinico

(Segue da pagina 4)

- **10.6 Prodotti di decomposizione pericolosi:** Non sono noti prodotti di decomposizione pericolosi.

### SEZIONE 11: Informazioni tossicologiche

- **11.1 Informazioni sugli effetti tossicologici**
- **Tossicità acuta** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Irritabilità primaria:**
- **Corrosione/irritazione cutanea** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Lesioni oculari gravi/irritazioni oculari gravi**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Sensibilizzazione respiratoria o cutanea**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Effetti CMR (cancerogenicità, mutagenicità e tossicità per la riproduzione)**
- **Mutagenicità delle cellule germinali**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Cancerogenicità**  
Sospettato di provocare il cancro.
- **Tossicità per la riproduzione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione singola**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Tossicità specifica per organi bersaglio (STOT) - esposizione ripetuta**  
Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.
- **Pericolo in caso di aspirazione** Basandosi sui dati disponibili i criteri di classificazione non sono soddisfatti.

### SEZIONE 12: Informazioni ecologiche

- **12.1 Tossicità**
- **Tossicità acquatica:** Non sono disponibili altre informazioni.
- **12.2 Persistenza e degradabilità** Non sono disponibili altre informazioni.
- **12.3 Potenziale di bioaccumulo** Non sono disponibili altre informazioni.
- **12.4 Mobilità nel suolo** Non sono disponibili altre informazioni.
- **Ulteriori indicazioni in materia ambientale:**
- **Ulteriori indicazioni:**  
Pericolosità per le acque classe 3 (D) (Classif. secondo le liste): molto pericoloso  
Non immettere nelle acque freatiche, nei corsi d'acqua o nelle fognature, anche in piccole dosi.  
Pericolo per le acque potabili anche in caso di perdite nel sottosuolo di quantità minime di prodotto.
- **12.5 Risultati della valutazione PBT e vPvB**
- **PBT:** Non applicabile.
- **vPvB:** Non applicabile.
- **12.6 Altri effetti avversi** Non sono disponibili altre informazioni.

### SEZIONE 13: Considerazioni sullo smaltimento

- **13.1 Metodi di trattamento dei rifiuti**
- **Consigli:** Non smaltire il prodotto insieme ai rifiuti domestici Non immettere nelle fognature.
- **Imballaggi non puliti:**
- **Consigli:** Smaltimento in conformità con le disposizioni amministrative.

IT

(continua a pagina 6)

**Scheda di dati di sicurezza**  
ai sensi del regolamento 1907/2006/CE, Articolo 31

Stampato il: 01.08.2016

Revisione: 01.08.2016

Denominazione commerciale: acido dimetilarsinico

(Segue da pagina 5)

**SEZIONE 14: Informazioni sul trasporto**

· 14.1 Numero ONU · ADR, IMDG, IATA	UN1572
· 14.2 Nome di spedizione dell'ONU · ADR · IMDG, IATA	1572 ACIDO CACODILICO CACODYLIC ACID
· 14.3 Classi di pericolo connesso al trasporto · ADR, IMDG, IATA	
	
· Classe · Etichetta	6.1 Materie tossiche 6.1
· 14.4 Gruppo di imballaggio · ADR, IMDG, IATA	II
· 14.5 Pericoli per l'ambiente:	Non applicabile.
· 14.6 Precauzioni speciali per gli utilizzatori · Numero Kemler: · Numero EMS: · Segregation groups · Stowage Category · Segregation Code	Attenzione: Materie tossiche 60 6.1-04 Acids E SG35 Stow "separated from" acids.
· 14.7 Trasporto di rinfuse secondo l'allegato II di MARPOL ed il codice IBC	Non applicabile.
· Trasporto/ulteriori indicazioni:	
· ADR · Quantità limitate (LQ) · Quantità esenti (EQ)	500 g Codice: E4 Quantità massima netta per imballaggio interno: 1 ml Quantità massima netta per imballaggio esterno: 500 ml
· Categoria di trasporto · Codice di restrizione in galleria	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1572 ACIDO CACODILICO, 6.1, II

IT

(continua a pagina 7)

**Scheda di dati di sicurezza**  
**ai sensi del regolamento 1907/2006/CE, Articolo 31**

Stampato il: 01.08.2016

Revisione: 01.08.2016

**Denominazione commerciale: acido dimetilarsinico**

(Segue da pagina 6)

**SEZIONE 15: Informazioni sulla regolamentazione**

- **15.1 Disposizioni legislative e regolamentari su salute, sicurezza e ambiente specifiche per la sostanza o la miscela**
- **Direttiva 2012/18/UE**
- **Sostanze pericolose specificate - ALLEGATO I** La sostanza non è contenuta
- **15.2 Valutazione della sicurezza chimica:** Una valutazione della sicurezza chimica non è stata effettuata.

**SEZIONE 16: Altre informazioni**

*I dati sono riportati sulla base delle nostre conoscenze attuali, non rappresentano tuttavia alcuna garanzia delle caratteristiche del prodotto e non motivano alcun rapporto giuridico contrattuale.*

**· Abbreviazioni e acronimi:**

*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

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*vPvB: very Persistent and very Bioaccumulative*

*Carc. 2: Cancerogenicità – Categoria 2*



# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

### 1 화학제품과 회사에 관한 정보

- 제품 식별자
- 제품명: Cacodylic Acid, Free Acid, Reagent, ACS
- 상품번호: 12200, 12200-SP, 12201
- CAS-번호  
75-60-5
- EC 의번호:  
200-883-4
- 해당 순물질이나 혼합물의 관련 하위용도 및 사용금지용도 추가적인 정보가 존재하지 않습니다.
- 제품의 권고 용도와 사용상의 제한: 실험실 화학품
- 안전데이터표(Safety Data Sheet)내 공급업체 관련 상세 정보
- 제조자/수입자/유통업자 정보:  
Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com
- Samchang Commercial Co., Ltd.  
Yeo Eui Do  
PO Box 1110  
Seoul, Korea  
Tel: 82 2 703 3040  
Fax: 82 2 717 3298
- 추가적인 정보 획득 가능: Product safety department
- 비상연락 전화번호:  
ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887

### 2 유해성·위험성

- 순물질 또는 혼합물의 분류



건강에 위험

발암성 - 구분 2 H351 암을 일으킬 것으로 의심됨

- 라벨표기 요소
- GHS 라벨 요소  
본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.
- 그림문자



GHS08

- 신호어 경고
- 유해·위험 문구  
암을 일으킬 것으로 의심됨
- 예방조치 문구  
(보호장갑·보호의·보안경·안면보호구)를(을) 착용하시오.  
사용 전 취급 설명서를 확보하시오.

(2 쪽에 계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명: Cacodylic Acid, Free Acid, Reagent, ACS**

(1 쪽부터계속)

모든 안전 예방조치 문구를 읽고 이해하기 전에는 취급하지 마시오.

노출되거나 노출이 우려되면 의학적인 조치·조언을 구하십시오.

잠금장치가 있는 저장장소에 저장하십시오.

현지/지역/국가/국제 규정에 따라서 내용물/용기 노출

- 기타 유해성
- PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과
- PBT(잔류성, 생물농축성, 독성 물질): 해당사항 없음.
- vPvB(고 잔류성, 고 생물농축성 물질): 해당사항 없음.

### 3 구성성분의 명칭 및 함유량

- 화학적 특성: 화학물질
- CAS-번호표시  
75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS
- 식별 번호
- EC 의번호: 200-883-4

### 4 응급조치 요령

- 응급조치요령 내용
- 흡입했을 때: 신선한 공기를 쉼, 통증이 있을 때는 의료진의 도움을 구한다.
- 피부에 접촉했을 때: 일반적으로 이 제품은 피부에 자극적이지 않다.
- 눈에 들어갔을 때: 흐르는 물에 눈을 몇분동안 씻어낸다.
- 먹었을 때: 증상이 지속될 경우에는 의사와 상담한다.
- 기타 의사의 주의사항:
- 가장 중요한 급·만성 증상 및 영향 추가적인 정보가 존재하지 않습니다.
- 즉각적인 의료처리 및 특별치료가 필요함을 시사하는 징후 추가적인 정보가 존재하지 않습니다.

### 5 폭발·화재시 대처방법

- 소화제
- 적절한 소화제:  
이산화탄소, 진화용 석회 가루 또는 물 방사를 사용하고, 더 큰 화재는 물을 분사하거나 알코올이 함유된 거품으로 끈다.
- 본 화학물질이나 혼합물에서 발생하는 특별 유해성 추가적인 정보가 존재하지 않습니다.
- 소방관에 대한 권고사항
- 화재 진압 시 착용할 보호구 및 예방조치: 특별한 조치가 필요없음.

### 6 누출 사고 시 대처방법

- 개인적 예방조치, 보호장비 및 응급처리 절차 필요없음.
- 환경 관련 예방조치: 하수도망/해수면위의물/지하수로도달하지않게한다.
- 밀폐 및 정화 방법과 소재:  
항목 13에 따라 오염된 물질을 쓰레기로 처분한다.  
충분한 환기가 되도록 한다.
- 타 섹션 참조  
안전 관리에 대한 정보는 제7 장 을 참고하십시오.  
개인 보호 장비에 대한 정보는 제8 장 을 참고하십시오.

(3 쪽에계속)

KR

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명: Cacodylic Acid, Free Acid, Reagent, ACS**

쓰레기 처리에 대한 정보는 제13 장을 참고하십시오.

(2 쪽부터 계속)

### 7 취급 및 저장방법

- 취급:
- 안전 취급을 위한 예방조치 작업장에서는 통풍이 잘 되고/습기 제거가 잘 되게 주의한다.
- 화재 및 폭발 사고 예방대책에 관한 정보: 특별한 조치가 필요없음.
- 혼합위험성 등 안전 저장 조건
- 보관:
- 안전한 저장 방법: 특별한 요구사항이 없음.
- 하나의 공동 보관 시설에 대한 보관 관련 정보: 필요없음
- 보관 조건에 관한 추가적인 정보: 없음
- 구체적인 최종 사용자 추가적인 정보가 존재하지 않습니다.

### 8 노출방지 및 개인보호구

- 첨단시설 디자인에 대한 추가정보: 더 이상 의 자료는 없음. 항목 7 을 참고하십시오.

· 통제 변수

· 화학물질의 노출기준, 생물학적 노출기준 등:

75-60-5 Cacodylic Acid, Free Acid, Reagent, ACS

TLV (KR) 장기간의값: 0.01 mg/m<sup>3</sup>

- 추가 정보: 제조할 당시에 유효한 목록을 기초로 사용했다.

· 노출 통제

· 개인 보호구

· 일반적보호조치및위생조치:

· 식료품, 음료수와 사료로부터 멀리 떨어져 두어 놓는다.

· 휴식 전이나 작업이 끝날 때 마다 손을 씻는다.

· 호흡기 보호:

· 단 시간 또는 경미한 오염의 경우에는 호흡 여과기를 사용한다. 심각한 또는 장기간 노출시에는 호흡보호장비를 사용한다.

· 손 보호:



보호용 장갑

장갑재질은 제품 / 원료 / 조제를 통과시키지 않아야 하고, 내구성이 있어야 한다.

· 테스트를 하지 않았기 때문에 제품 / 조제 / 화학 혼합물에 적합한 장갑재질에 대한 추천이 없다.

· 투과 시간, 침투율과 저하를 고려해서 장갑 재료를 선택한다.

· 장갑 의 재료

· 적합한 장갑 의 선정은 재질 차이뿐 아니라 품질 기준의 차이도 고려하여 이루어져야 하고 제조업자에 따라서도 다르게 선정되어야 한다.

- 장갑 재료 의 투과 시간 정확한 관통 시간은 보호장갑 제조자에 의하여 인지되고, 준수되어야 한다.

· 눈 보호: 필요 없음.

KR

(4 쪽에 계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명:** Cacodylic Acid, Free Acid, Reagent, ACS

(3 쪽부터계속)

### 9 물리화학적 특성

· 기본 물리 및 화학적 특성에 대한 정보	
· 일반정보	
· 외형	
· 물리적 상태:	알맞지않다.
· 색:	알맞지않다.
· 냄새:	특색있는
· 후각역치	알맞지않다.
· pH:	알맞지않다.
· 상태변화	
· 녹는점/어는점:	맞지않는
· 초기 끓는점과 끓는점 범위:	맞지않는
· 인화점:	해당사항 없음.
· 인화성(고체, 기체):	해당사항 없음.
· 점화온도:	
· 분해 온도:	알맞지않다.
· 자기점화:	알맞지않다.
· 폭발위험:	이제품은폭발위험성이없다
· 인화 또는 폭발 범위의 상한/하한	
· 아래로:	알맞지않다.
· 위로:	알맞지않다.
· 증기압:	알맞지않다.
· 밀도:	맞지않는다.
· 비중:	알맞지않다.
· 증기밀도:	알맞지않다.
· 증발 속도:	해당사항 없음.
· 용해도:	
· 물:	알맞지않다.
· n 옥탄올/물 분배계수:	알맞지않다.
· 점도:	
· 역학성:	알맞지않다.
· 동점성:	알맞지않다.
· 기타 정보	추가적인 정보가 존재하지 않습니다.

### 10 안정성 및 반응성

- 반응성 추가적인 정보가 존재하지 않습니다.
- 화학적 안정성
- 화학적 안정성 및 유해 반응의 가능성 / 피해야 할 조건: 규정에따라사용할경우해체는없다
- 유해반응 가능성 위험한반응으로는알려지지않았다.
- 피해야 할 조건 추가적인 정보가 존재하지 않습니다.
- 혼합 금지 물질: 추가적인 정보가 존재하지 않습니다.

(5 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명:** Cacodylic Acid, Free Acid, Reagent, ACS

(4 쪽부터계속)

· **유해분해물질:** 위험성있는분해물들은알려지지않았다.

### 11 독성에 관한 정보

- **독성학적 영향에 대한 정보**
- **급성 독성:**
- **입차적 자극 효과:**
- **피부 부식성 또는 자극성:** 무자극
- **심한 눈 손상 또는 자극성:** 무자극.
- **감각화:** 민감한영향이없는것으로알려져있다.
- **다음 종류의 잠재적인 효과에 대한 정보**
- **CMR-효과 (암 유발, 돌연변이성 그리고 생식 독성)**  
발암성 - 구분 2

### 12 환경에 미치는 영향

- **독성**
- **수생독성:** 추가적인 정보가 존재하지 않습니다.
- **지속성 및 분해성** 추가적인 정보가 존재하지 않습니다.
- **환경 시스템에서의 행동:**
- **생물농축 잠재성** 추가적인 정보가 존재하지 않습니다.
- **토양내 이동성** 추가적인 정보가 존재하지 않습니다.
- **추가적인 생태학 정보:**
- **일반 특징:**  
수질오염등급 3 (목록분류): 심하게수질오염이된 지하수나, 하천으로또는하수도망에도달하지않게한다. 역시극소수의양이라도안된다. 지하수로아주미세한양이유입되었을경우엔이미식수오염상태이다
- **PBT(잔류성, 생물농축성, 독성 물질) 및 vPvB(고 잔류성, 고 생물농축성 물질) 평가 결과**
- **PBT(잔류성, 생물농축성, 독성 물질):** 해당사항 없음.
- **vPvB(고 잔류성, 고 생물농축성 물질):** 해당사항 없음.
- **기타 부작용** 추가적인 정보가 존재하지 않습니다.

### 13 폐기시 주의사항

- **폐기물 처리 방법**
- **권고:** 생활쓰레기와함께처리되어서는안된다. 하수도망으로유입되어서는안된다.
- **비위생적 포장:**
- **권고:** 당국의지침에입각한쓰레기처리.

### 14 운송에 필요한 정보

- |   |   |
|---|---|
| <ul style="list-style-type: none"> <li>· <b>유엔 번호</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                      | <p>UN1572</p>                                 |
| <ul style="list-style-type: none"> <li>· <b>UN 적정 선적명</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | <p>1572 CACODYLIC ACID<br/>CACODYLIC ACID</p> |

(6 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명: Cacodylic Acid, Free Acid, Reagent, ACS**

(5 쪽부터계속)

<ul style="list-style-type: none"> <li>· <b>교통 위험 클래스</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>등급</b></li> <li>· <b>위험물 라벨</b></li> </ul>	6.1 독성물질 6.1
<ul style="list-style-type: none"> <li>· <b>용기등급</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	II
<ul style="list-style-type: none"> <li>· <b>환경적 유해물질:</b></li> </ul>	해당사항 없음.
<ul style="list-style-type: none"> <li>· <b>이용자 특별 예방조치</b></li> <li>· <b>위험 코드:</b></li> <li>· <b>EMS-번호:</b></li> <li>· <b>Segregation groups</b></li> <li>· <b>Stowage Category</b></li> <li>· <b>Segregation Code</b></li> </ul>	경고: 독성물질 60 6.1-04 Acids E SG35 Stow "separated from" acids.
<ul style="list-style-type: none"> <li>· <b>MARPOL73/78(선박으로부터의 해양오염방지협약) 부속서2 및 IBC Code(국제선적화물코드)에 따른 벌크(bulk) 운송</b></li> </ul>	해당사항 없음.
<ul style="list-style-type: none"> <li>· <b>운 송/추가 정보:</b></li> </ul>	
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>한정 수량 (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>운송 구분</b></li> <li>· <b>터널 제한 코드</b></li> </ul>	2 D/E
<ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> </ul>	500 g Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
<ul style="list-style-type: none"> <li>· <b>UN "모범 규제":</b></li> </ul>	UN 1572 CACODYLIC ACID, 6.1, II

### 15 법적 규제현황

- 해당 순물질 또는 혼합물에 대한 안전, 보건 및 환경 규제/법률
- **화학물질관리법**
- **사고대비물질** 성분이 포함되어있지않다
- **금지물질** 성분이 포함되어있지않다
- **제한물질** 성분이 포함되어있지않다
- **유독물질** 성분이 포함되어있지않다
- **허가물질** 성분이 포함되어있지않다
- **GHS 라벨 요소**

본 화학물질은 화학물질의 분류 및 표기에 관한 국제조화시스템(GHS)에 따라 분류 및 표기되었습니다.

(7 쪽에계속)

# 물질안전보건자료

## GHS에 따라

기압점: 2016.08.01

개정: 2016.08.01

**제품명: Cacodylic Acid, Free Acid, Reagent, ACS**

(6 쪽부터계속)

### · 그림문자



GHS08

- **신호어 경고**
- **유해.위험 문구**  
압을 일으킬 것으로 의심됨
- **예방조치 문구**  
(보호장갑·보호의·보안경·안면보호구)를(을) 착용하십시오.  
사용 전 취급 설명서를 확보하십시오.  
모든 안전 예방조치 문구를 읽고 이해하기 전에는 취급하지 마시오.  
노출되거나 노출이 우려되면 의학적인 조치·조언을 구하십시오.  
잠금장치가 있는 저장장소에 저장하십시오.  
현지/지역/국가/국제 규정에 따라서 내용물/용기 노출
- **화학물질 안전성 평가:** 화학물질 안전성 평가가 수행되지 않음

## 16 그 밖의 참고사항

이보고는우리지식에대한오늘날의상태에대하여평가하고있다, 하지만이보고서는생산특성에관한보증은 기술하지않았으며계약적인법률관계에기반을두고있지도않다

- **최초 작성일자:** 2016.08.01
- **개정 횟수 및 최종 개정일자:** 1 / 2016.08.01
- **약어와 두문자어:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

**Паспорт безопасности.**  
в соответствии с 1907/2006/ЕС, Статья 31

Дата печати: 01.08.2016

Дата редактирования: 01.08.2016

### 1 Наименование вещества / препарата и фирмы / предприятия

- **Идентификатор продукта**
- **Торговое наименование:** *Cacodylic Acid, Free Acid, Reagent, ACS*
- **Артикульный номер:** 12200, 12200-SP, 12201
- **Номер CAS:**  
75-60-5
- **Номер ЕС:**  
200-883-4
- **Соответствующие установленные применения вещества или смеси и не рекомендуемые области использования**  
*Отсутствует какая-либо соответствующая информация.*
- **Применение вещества / препарата** *Лабораторные химикаты*
- **Подробная информация поставщика паспорта безопасности**
- **Производитель / Поставщик:**  
*Electron Microscopy Sciences  
1560 Industry Road  
USA-Hatfield, PA 19440  
Tel: 215-412-8400 Fax: 215-412-8450  
email: sgkcck@aol.com  
www.emsdiasum.com*
- **Отдел, предоставляющий информацию:** *Product safety department*
- **Номер телефона экстренной связи:**  
*ChemTrec 1-800-424-9300 Contract CCN7661  
1-703-527-3887*

### 2 Возможные виды опасности

- **Классификация вещества или смеси**



опасность для здоровья

*Канцерогенность 2 H351 Предположительно вызывает рак.*

- **Элементы маркировки**
- **Элементы маркировки в соответствии с СГС**  
*Данное вещество классифицируется и маркируется в соответствии с Согласованной на глобальном уровне системой классификации и маркировки химических веществ (GHS).*
- **Пиктограммы, обозначающие опасности**



GHS08

- **Сигнальное слово** *Осторожно*
- **Предупреждения об опасности**  
*Предположительно вызывает рак.*
- **Меры предосторожности**  
*Пользоваться защитными перчатками/защитной одеждой/ средствами защиты глаз/лица.  
Перед использованием получить специальные инструкции.  
Не приступать к обработке до тех пор, пока не прочитана и не понята информация о мерах предосторожности.  
При оказании воздействия или обеспокоенности: Обратиться к врачу.*

(Продолжение на странице 2)



**Паспорт безопасности.**  
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(Продолжение страницы 1)

*Хранить под замком.*

*Утилизировать содержимое / тару в соответствии с местными / региональными / национальными / международными предписаниями.*

- *Другие опасные факторы*
- *Результаты оценки PBT (устойчивое биоаккумулятивное токсическое вещество) и vPvB (очень устойчивое биоаккумулятивное вещество)*
- *PBT: Неприменимо.*
- *vPvB: Неприменимо.*

### 3 Состав / Данные по составляющим компонентам

- *Химическая характеристика: Вещества*
- *Обозначение номера CAS*  
75-60-5 Casodylic Acid, Free Acid, Reagent, ACS
- *Идентификационный (-ые) номер (-а)*
- *Номер ЕС: 200-883-4*

### 4 Меры по оказанию первой помощи

- *Описание мер первой медицинской помощи*
- *После вдыхания: Обеспечить доступ свежего воздуха, при недомоганиях обратиться к врачу.*
- *После контакта с кожей: Как правило, продукт не оказывает раздражающего воздействия на кожу.*
- *После контакта с глазами: Промыть открытый глаз под проточной водой в течение нескольких минут.*
- *После проглатывания: При сохранении симптомов обратиться к врачу за консультацией.*
- *Указания для врача:*
- *Наиболее важные симптомы и эффекты, как немедленные, так и проявляющиеся впоследствии*  
*Отсутствует какая-либо соответствующая информация.*
- *Указание на необходимость оперативной медицинской помощи и специального режима*  
*Отсутствует какая-либо соответствующая информация.*

### 5 Меры по борьбе с пожаром

- *Средства пожаротушения*
- *Надлежащие средства тушения:*  
*CO<sub>2</sub>, порошковое средство для тушения или водяная струя мелкого разбрызгивания. При борьбе с крупными пожарами следует применять водяную струю мелкого разбрызгивания или спиртоустойчивую пену.*
- *Особые опасности, создаваемые веществом или смесью*  
*Отсутствует какая-либо соответствующая информация.*
- *Рекомендации для пожарных*
- *Защитное оснащение: Нет необходимости в каких-либо специальных мерах.*

### 6 Меры при непреднамеренном выделении (утечке)

- *Меры по обеспечению личной безопасности, защитное снаряжение и порядок действий в чрезвычайной ситуации*  
*Не требуется.*
- *Меры по защите окружающей среды:*  
*Не допускать попадания в канализационную систему / поверхностные или грунтовые воды.*
- *Методы и материалы для локализации и очистки:*  
*Утилизировать заражённый материал как отходы в соответствии с Пунктом 13.*

(Продолжение на странице 3)

# Паспорт безопасности.

## в соответствии с 1907/2006/ЕС, Статья 31

Дата печати: 01.08.2016

Дата редактирования: 01.08.2016

**Торговое наименование: Casodylic Acid, Free Acid, Reagent, ACS**

(Продолжение страницы 2)

Обеспечить достаточную вентиляцию.

· **Ссылки на другие разделы**

Информация по безопасному обращению - в Главе 7.

Информация по индивидуальному защитному снаряжению - в Главе 8.

Информация по утилизации - в Главе 13.

### 7 Обращение с веществом и его хранение

· **Обращение с веществом:**

· **Меры предосторожности по безопасному обращению**

Обеспечить хорошую вентиляцию / вытяжку на рабочем месте.

· **Указания по защите от пожаров и взрывов:** Нет необходимости в каких-либо специальных мерах.

· **Условия безопасного хранения, включая несовместимости**

· **Хранение:**

· **Требования, предъявляемые к складским помещениям и таре:**

Никаких особенных требований не предъявляется.

· **Указания по совместимости с другими веществами при хранении:** Не требуется.

· **Дальнейшие данные по условиям хранения:** Ни одного.

· **Характерное конечное применение (или применения)**

Отсутствует какая-либо соответствующая информация.

### 8 Ограничение воздействия вещества и контроль / индивидуальные средства защиты

· **Дополнительные указания по структуре технических устройств:**

Никаких дополнительных данных; см. Пункт 7.

· **Параметры контроля**

· **Составляющие компоненты с предельными значениями, требующие мониторинга на рабочих местах:**

Не требуется.

· **Дополнительные указания:**

В качестве основы послужили списки, являвшиеся на момент составления актуальными.

· **Требования по охране труда и меры по обеспечению безопасности персонала**

· **Средства индивидуальной защиты:**

· **Общие меры по защите от воздействия и гигиене:**

Держать подальше от продуктов питания, напитков и корма для животных.

Мыть руки перед перерывами и по окончании работы.

· **Защита органов дыхания:**

При кратковременном контакте с веществом или при воздействии вещества низкой концентрации пользоваться фильтрующим устройством для защиты органов дыхания. При интенсивном или более продолжительном контакте следует воспользоваться автономным устройством защиты органов дыхания.

· **Защита рук:**



Защитные перчатки (рукавицы).

Материал перчаток / рукавиц должен быть устойчивым к воздействию продукта / вещества / препарата и не пропускать их.

(Продолжение на странице 4)

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(Продолжение страницы 3)

Никаких рекомендаций в отношении материала перчаток / рукавиц, пригодных для применения в ходе работы с продуктом / препаратом / смесью химикатов дать нельзя, так как никаких испытаний в этом отношении не проводилось.

Выбор материала перчаток / рукавиц производится с учётом времени прорыва, степени проницаемости и эрозии.

· **Материал перчаток / рукавиц**

Выбор подходящих перчаток / рукавиц определяется не только материалом, но также и другими качественными особенностями, причём между различными производителями существует большая разница.

· **Период проницаемости материала перчаток / рукавиц.**

Необходимо осведомиться у производителя защитных перчаток / рукавиц о точном времени прорыва и придерживаться его.

· **Защита глаз:** Не требуется.

## 9 Физические и химические свойства

· **Информация по основным физическим и химическим свойствам**

· **Общая информация**

· **Внешний вид:**

**Форма:** Не определено.

**Цвет:** Не определено.

· **Запах:** Характерно

· **Порог запаха:** Не определено.

· **Значение рН:** Не определено.

· **Изменение состояния**

**Точка плавления / интервал температур плавления:** Не определено.

**Точка кипения / интервал температур кипения:** Не определено.

· **Температурная точка вспышки:** Неприменимо.

· **Воспламеняемость (твёрдое, газообразное вещество):** Неприменимо.

· **Температура воспламенения:**

**Температура распада:** Не определено.

· **Самовоспламеняемость:** Не определено.

· **Взрывоопасность:** Продукт не является взрывоопасным.

· **Границы взрываемости:**

**Нижняя:** Не определено.

**Верхняя:** Не определено.

· **Давление пара:** Не определено.

· **Плотность:** Не определено.

· **Относительная плотность** Не определено.

· **Плотность пара** Не определено.

· **Скорость испарения** Неприменимо.

· **Растворимость в / Смешиваемость с водой:** Не определено.

(Продолжение на странице 5)

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(Продолжение страницы 4)

- **Коэффициент распределения (n-октанол / вода):** *Не определено.*
- **Вязкость:**
  - Динамическая: Не определено.*
  - Кинематическая: Не определено.*
- **Другая информация** *Отсутствует какая-либо соответствующая информация.*

### 10 Стабильность и реакционная способность

- **Реакционная способность** *Отсутствует какая-либо соответствующая информация.*
- **Химическая стабильность**
- **Термический распад / условия, которых следует избегать:**  
*При использовании в соответствии с предписаниями не происходит никакого распада.*
- **Возможность опасных реакций** *Неизвестно ни о каких опасных реакциях.*
- **Условия, вызывающие опасные изменения** *Отсутствует какая-либо соответствующая информация.*
- **Несовместимые материалы:** *Отсутствует какая-либо соответствующая информация.*
- **Опасные продукты распада:** *Неизвестно ни о каких опасных продуктах распада.*

### 11 Данные по токсикологии

- **Информация по токсикологическому воздействию**
- **Острая токсичность:**
- **Первичное раздражающее воздействие:**
  - на кожу: Нет раздражающего воздействия.*
  - на глаза: Нет раздражающего воздействия.*
- **Сенсибилизация:** *Неизвестно о наличии сенсибилизирующего воздействия.*
- **Информация по следующим группам потенциальных воздействий:**
- **Канцерогенное, изменяющее наследственность и вызывающее бесплодие действие**  
*Канцерогенность 2*

### 12 Экологическая информация

- **Токсичность**
- **Акватоксичность:** *Отсутствует какая-либо соответствующая информация.*
- **Стойкость и склонность к деградации** *Отсутствует какая-либо соответствующая информация.*
- **Поведение в экологических системах:**
- **Биоаккумулятивный потенциал** *Отсутствует какая-либо соответствующая информация.*
- **Подвижность в грунте** *Отсутствует какая-либо соответствующая информация.*
- **Дополнительные экологические указания:**
- **Общие указания:**  
*Класс вредности для воды 3 (Списочная классификация): очень вредно для воды*  
*Не допускать попадания продукта в грунтовые воды, водоёмы или в канализационную систему, даже в малых количествах.*  
*Вред для питьевой воды при попадании под землю даже минимальных количеств.*
- **Результаты оценки PBT (устойчивое биоаккумулятивное токсическое вещество) и vPvB (очень устойчивое биоаккумулятивное вещество)**
- **PBT:** *Неприменимо.*
- **vPvB:** *Неприменимо.*

(Продолжение на странице 6)

**Паспорт безопасности.**  
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(Продолжение страницы 5)

· **Другие вредные эффекты** Отсутствует какая-либо соответствующая информация.

### 13 Указания по утилизации

- **Методы обработки отходов**
- **Рекомендация:**  
Утилизация совместно с бытовыми отходами недопустима. Не допускать попадания в канализацию.
- **Неочищенные упаковки:**
- **Рекомендация:**  
Утилизация должна быть осуществлена в соответствии с предписаниями компетентных служб.

### 14 Информация по транспорту

· <b>Номер UN</b> · <b>ADR, IMDG, IATA</b>	UN1572
· <b>Собственное транспортное наименование ООН</b> · <b>ADR</b> · <b>IMDG, IATA</b>	1572 КИСЛОТА КАКОДИЛОВАЯ CACODYLIC ACID
· <b>классов опасности транспорта</b> · <b>ADR, IMDG, IATA</b>	
	
· <b>Класс</b> · <b>Этикетка для опасного содержимого</b>	6.1 Токсичные вещества 6.1
· <b>Группа упаковки</b> · <b>ADR, IMDG, IATA</b>	II
· <b>Экологические риски:</b>	Неприменимо.
· <b>Особые меры предосторожности для пользователей</b> · <b>Код опасности (по Кемлеру):</b> · <b>Номер EMS:</b> · <b>Segregation groups</b> · <b>Stowage Category</b> · <b>Segregation Code</b>	Осторожно: Токсичные вещества 60 6.1-04 Acids E SG35 Stow "separated from" acids.
· <b>Транспортировка навалом в соответствии с Приложением II MARPOL73/78 (Международная конвенция по предотвращению загрязнения вод с судов) и IBC Code (Международный кодекс перевозок опасных химических грузов наливом)</b>	Неприменимо.
· <b>Транспорт / дополнительная информация:</b>	
· <b>ADR</b> · <b>Ограниченные объёмы (LQ)</b> · <b>Освобожденные количества (EQ)</b>	500 г Код: E4 Максимальное количество нетто на внутреннюю тару: 1 мл

(Продолжение на странице 7)

**Паспорт безопасности.**  
в соответствии с 1907/2006/ЕС, Статья 31

Дата печати: 01.08.2016

Дата редактирования: 01.08.2016

**Торговое наименование:** *Cacodylic Acid, Free Acid, Reagent, ACS*

(Продолжение страницы 6)

· <b>Транспортная категория</b>	Максимальное количество нетто на наружную тару: 500 мл 2
· <b>Код ограничения проезда через туннели</b>	D/E
<hr/>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	500 г
· <b>Excepted quantities (EQ)</b>	Code: E4 Maximum net quantity per inner packaging: 1 мл Maximum net quantity per outer packaging: 500 мл
· <b>UN "Model Regulation":</b>	UN 1572 КИСЛОТА КАКОДИЛОВАЯ, 6.1, II

### 15 Предписания

- **Нормы безопасности, правила охраны труда и экологические нормативы или стандарты, действующие для вещества или смеси**
- **Элементы маркировки в соответствии с СГС**  
Данное вещество классифицируется и маркируется в соответствии с Согласованной на глобальном уровне системой классификации и маркировки химических веществ (GHS).
- **Пиктограммы, обозначающие опасности**



GHS08

- **Сигнальное слово** *Осторожно*
- **Предупреждения об опасности**  
*Предположительно вызывает рак.*
- **Меры предосторожности**  
*Пользоваться защитными перчатками/защитной одеждой/ средствами защиты глаз/лица.  
Перед использованием получить специальные инструкции.  
Не приступать к обработке до тех пор, пока не прочитана и не понята информация о мерах предосторожности.  
При оказании воздействия или беспокойности: Обратиться к врачу.  
Хранить под замком.  
Утилизировать содержимое / тару в соответствии с местными / региональными / национальными / международными предписаниями.*
- **Оценка химической безопасности:** *Оценка химической безопасности не проведена.*

### 16 Прочая информация:

Данные опираются на актуальные знания, однако они не являются гарантией каких-либо конкретных свойств продукта и не устанавливают никаких действующих с юридической точки зрения договорных отношений.

- **Аббревиатуры и акронимы:**  
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
PBT: Persistent, Bioaccumulative and Toxic

(Продолжение на странице 8)

**Паспорт безопасности.**  
**в соответствии с 1907/2006/ЕС, Статья 31**

Дата печати: 01.08.2016

Дата редактирования: 01.08.2016

**Торговое наименование: Sacodylic Acid, Free Acid, Reagent, ACS**

*vPvB: very Persistent and very Bioaccumulative*  
*Канцерогенность 2: Carcinogenicity – Category 2*

(Продолжение страницы 7)

RU



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

### SECCIÓN 1: Identificación de la sustancia o la mezcla y de la sociedad o la empresa

#### · 1.1 Identificador del producto

· **Nombre comercial:** ácido dimetilarsinico

· **Número del artículo:** 12200, 12200-SP, 12201

· **Número CAS:**

75-60-5

· **Número CE:**

200-883-4

· **1.2 Usos pertinentes identificados de la sustancia o de la mezcla y usos desaconsejados**

*No existen más datos relevantes disponibles.*

· **Utilización del producto / de la elaboración** Sustancias químicas de laboratorio

#### · 1.3 Datos del proveedor de la ficha de datos de seguridad

· **Fabricante/distribuidor:**

Electron Microscopy Sciences

1560 Industry Road

USA-Hatfield, PA 19440

Tel: 215-412-8400 Fax: 215-412-8450

email: [sgkcck@aol.com](mailto:sgkcck@aol.com)

[www.emsdiasum.com](http://www.emsdiasum.com)

Aname

C/ Perez Galdos no. 2

28693 Quijorna

Madrid, Spain

Tel: +34.91.816.89.50

Fax: +34.91.816.85.94

email: [ventas@aname.es](mailto:ventas@aname.es)

· **Área de información:** Product safety department

· **1.4 Teléfono de emergencia:**

ChemTrec 1-800-424-9300 Contract CCN7661

1-703-527-3887

### SECCIÓN 2: Identificación de los peligros

· **2.1 Clasificación de la sustancia o de la mezcla**

· **Clasificación con arreglo al Reglamento (CE) n° 1272/2008**



GHS08 peligro para la salud

Carc. 2 H351 Se sospecha que provoca cáncer.

· **2.2 Elementos de la etiqueta**

· **Etiquetado con arreglo al Reglamento (CE) n° 1272/2008**

*La sustancia se ha clasificado y etiquetado de conformidad con el reglamento CLP.*

· **Pictogramas de peligro**



GHS08

· **Palabra de advertencia** Atención

· **Indicaciones de peligro**

H351 Se sospecha que provoca cáncer.

( se continua en página 2 )



# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

Nombre comercial: ácido dimetilarsinico

( se continua en página 1 )

### · Consejos de prudencia

- P280 Llevar guantes/prendas/gafas/máscara de protección.
- P201 Pedir instrucciones especiales antes del uso.
- P202 No manipular la sustancia antes de haber leído y comprendido todas las instrucciones de seguridad.
- P308+P313 EN CASO DE exposición manifiesta o presunta: Consultar a un médico.
- P405 Guardar bajo llave.
- P501 Eliminar el contenido o el recipiente conforme a la reglamentación local/regional/nacional/internacional.

### · 2.3 Otros peligros

### · Resultados de la valoración PBT y mPmB

- PBT: No aplicable.
- mPmB: No aplicable.

## SECCIÓN 3: Composición/información sobre los componentes

### · 3.1 Caracterización química: Sustancias

- Denominación N° CAS  
75-60-5 ácido dimetilarsinico
- Número(s) de identificación
- Número CE: 200-883-4

## SECCIÓN 4: Primeros auxilios

### · 4.1 Descripción de los primeros auxilios

- En caso de inhalación del producto: Suministrar aire fresco. En caso de trastornos, consultar al médico.
- En caso de contacto con la piel: Por regla general, el producto no irrita la piel.
- En caso de con los ojos: Limpiar los ojos abiertos durante varios minutos con agua corriente.
- En caso de ingestión: Consultar un médico si los trastornos persisten.
- 4.2 Principales síntomas y efectos, agudos y retardados No existen más datos relevantes disponibles.
- 4.3 Indicación de toda atención médica y de los tratamientos especiales que deban dispensarse inmediatamente No existen más datos relevantes disponibles.

## SECCIÓN 5: Medidas de lucha contra incendios

### · 5.1 Medios de extinción

#### · Sustancias extintoras apropiadas:

CO<sub>2</sub>, polvo extintor o chorro de agua rociada. Combatir incendios mayores con chorro de agua rociada o espuma resistente al alcohol.

- 5.2 Peligros específicos derivados de la sustancia o la mezcla No existen más datos relevantes disponibles.
- 5.3 Recomendaciones para el personal de lucha contra incendios
- Equipo especial de protección: No se requieren medidas especiales.

## SECCIÓN 6: Medidas en caso de vertido accidental

- 6.1 Precauciones personales, equipo de protección y procedimientos de emergencia No es necesario.
- 6.2 Precauciones relativas al medio ambiente:  
Evitar que penetre en la canalización /aguas de superficie /agua subterráneas.
- 6.3 Métodos y material de contención y de limpieza:  
Desechar el material contaminado como vertido según ítem 13.  
Asegurar suficiente ventilación.

( se continua en página 3 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

Nombre comercial: ácido dimetilarsinico

( se continua en página 2 )

### · 6.4 Referencia a otras secciones

- Ver capítulo 7 para mayor información sobre una manipulación segura.
- Ver capítulo 8 para mayor información sobre el equipo personal de protección.
- Para mayor información sobre cómo desechar el producto, ver capítulo 13.

## SECCIÓN 7: Manipulación y almacenamiento

### · 7.1 Precauciones para una manipulación segura

- Asegurar suficiente ventilación /aspiración en el puesto de trabajo.
- **Prevención de incendios y explosiones:** No se requieren medidas especiales.

### · 7.2 Condiciones de almacenamiento seguro, incluidas posibles incompatibilidades

- **Almacenamiento:**
- **Exigencias con respecto al almacén y los recipientes:** No se requieren medidas especiales.
- **Normas en caso de un almacenamiento conjunto:** No es necesario.
- **Indicaciones adicionales sobre las condiciones de almacenamiento:** Ningunos, -as.
- **7.3 Usos específicos finales** No existen más datos relevantes disponibles.

## SECCIÓN 8: Controles de exposición/protección individual

### · Instrucciones adicionales para el acondicionamiento de instalaciones técnicas:

Sin datos adicionales, ver punto 7.

### · 8.1 Parámetros de control

- **Componentes con valores límite admisibles que deben controlarse en el puesto de trabajo:** Nulo.
- **Indicaciones adicionales:** Como base se han utilizado las listas vigentes en el momento de la elaboración.

### · 8.2 Controles de la exposición

#### · Equipo de protección individual:

#### · Medidas generales de protección e higiene:

Mantener alejado de alimentos, bebidas y alimentos para animales.  
Lavarse las manos antes de las pausas y al final del trabajo.

#### · Protección respiratoria:

Si la exposición va a ser breve o de poca intensidad, colocarse una máscara respiratoria. Para una exposición más intensa o de mayor duración, usar un aparato de respiración autónomo.

#### · Protección de manos:



Guantes de protección

El material del guante deberá ser impermeable y resistente al producto / sustancia / preparado.

Ante la ausencia de tests específicos, no se puede recomendar ningún material específico para guantes de protección contra el producto / preparado / mezcla de sustancias químicas.

Selección del material de los guantes en función de los tiempos de rotura, grado de permeabilidad y degradación.

#### · Material de los guantes

La elección del guante adecuado no depende únicamente del material, sino también de otras características de calidad, que pueden variar de un fabricante a otro.

#### · Tiempo de penetración del material de los guantes

El tiempo de resistencia a la penetración exacto deberá ser pedido al fabricante de los guantes. Este tiempo debe ser respetado.

( se continua en página 4 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

Nombre comercial: ácido dimetilarsinico

( se continua en página 3 )

· **Protección de ojos:** No es necesario.

### SECCIÓN 9: Propiedades físicas y químicas

#### · 9.1 Información sobre propiedades físicas y químicas básicas

##### · Datos generales

##### · Aspecto:

· **Forma:** No determinado.

· **Color:** No determinado.

· **Olor:** Característico

· **Umbral olfativo:** No determinado.

· **valor pH:** No determinado.

##### · Cambio de estado

· **Punto de fusión /campo de fusión:** Indeterminado.

· **Punto de ebullición /campo de ebullición:** Indeterminado.

· **Punto de inflamación:** No aplicable.

· **Inflamabilidad (sólido, gaseiforme):** No aplicable.

##### · Temperatura de ignición:

· **Temperatura de descomposición:** No determinado.

· **Autoinflamabilidad:** No determinado.

· **Peligro de explosión:** El producto no es explosivo.

##### · Límites de explosión:

· **Inferior:** No determinado.

· **Superior:** No determinado.

· **Presión de vapor:** No determinado.

· **Densidad:** Indeterminado.

· **Densidad relativa** No determinado.

· **Densidad de vapor** No determinado.

· **Velocidad de evaporación** No aplicable.

· **Solubilidad en / miscibilidad con agua:** No determinado.

· **Coefficiente de reparto (n-octanol/agua):** No determinado.

##### · Viscosidad:

· **Dinámica:** No determinado.

· **Cinemática:** No determinado.

· **9.2 Otros datos** No existen más datos relevantes disponibles.

### SECCIÓN 10: Estabilidad y reactividad

· **10.1 Reactividad** No existen más datos relevantes disponibles.

· **10.2 Estabilidad química**

· **Descomposición térmica / condiciones que deben evitarse:** No se descompone al emplearse adecuadamente.

· **10.3 Posibilidad de reacciones peligrosas** No se conocen reacciones peligrosas.

· **10.4 Condiciones que deben evitarse** No existen más datos relevantes disponibles.

( se continua en página 5 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

**Nombre comercial:** ácido dimetilar sinico

( se continua en página 4 )

- **10.5 Materiales incompatibles:** No existen más datos relevantes disponibles.
- **10.6 Productos de descomposición peligrosos:** No se conocen productos de descomposición peligrosos.

### SECCIÓN 11: Información toxicológica

- **11.1 Información sobre los efectos toxicológicos**
- **Toxicidad aguda** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efecto estimulante primario:**
- **Corrosión o irritación cutáneas** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Lesiones o irritación ocular graves**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Sensibilización respiratoria o cutánea**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Efectos CMR (carcinogenicidad, mutagenicidad y toxicidad para la reproducción)**
- **Mutagenicidad en células germinales**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Carcinogenicidad**  
Se sospecha que provoca cáncer.
- **Toxicidad para la reproducción** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición única**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Toxicidad específica en determinados órganos (STOT) – exposición repetida**  
A la vista de los datos disponibles, no se cumplen los criterios de clasificación.
- **Peligro de aspiración** A la vista de los datos disponibles, no se cumplen los criterios de clasificación.

### SECCIÓN 12: Información ecológica

- **12.1 Toxicidad**
- **Toxicidad acuática:** No existen más datos relevantes disponibles.
- **12.2 Persistencia y degradabilidad** No existen más datos relevantes disponibles.
- **12.3 Potencial de bioacumulación** No existen más datos relevantes disponibles.
- **12.4 Movilidad en el suelo** No existen más datos relevantes disponibles.
- **Indicaciones medioambientales adicionales:**
- **Indicaciones generales:**  
Nivel de riesgo para el agua 3 (clasificación de listas): muy peligroso para el agua  
No dejar que se infiltre en aguas subterráneas, aguas superficiales o en alcantarillados, ni siquiera en pequeñas cantidades.  
Una cantidad ínfima vertida en el subsuelo ya representa un peligro para el agua potable.
- **12.5 Resultados de la valoración PBT y mPmB**
- **PBT:** No aplicable.
- **mPmB:** No aplicable.
- **12.6 Otros efectos adversos** No existen más datos relevantes disponibles.

### SECCIÓN 13: Consideraciones relativas a la eliminación

- **13.1 Métodos para el tratamiento de residuos**
- **Recomendación:** No debe desecharse con la basura doméstica. No debe llegar al alcantarillado.

( se continua en página 6 )

# Ficha de datos de seguridad

según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

Nombre comercial: ácido dimetilarsinico

( se continua en página 5 )

- Embalajes sin limpiar:
- Recomendación: Eliminar conforme a las disposiciones oficiales.

## SECCIÓN 14: Información relativa al transporte

· 14.1 Número ONU	UN1572
· ADR, IMDG, IATA	
· 14.2 Designación oficial de transporte de las Naciones Unidas	
· ADR	1572 ÁCIDO CACODÍLICO
· IMDG, IATA	CACODYLIC ACID
· 14.3 Clase(s) de peligro para el transporte	
· ADR, IMDG, IATA	
· Clase	6.1 Materias tóxicas
· Etiqueta	6.1
· 14.4 Grupo de embalaje	
· ADR, IMDG, IATA	II
· 14.5 Peligros para el medio ambiente:	No aplicable.
· 14.6 Precauciones particulares para los usuarios	Atención: Materias tóxicas
· Número Kemler:	60
· Número EMS:	6.1-04
· Segregation groups	Acids
· Stowage Category	E
· Segregation Code	SG35 Stow "separated from" acids.
· 14.7 Transporte a granel con arreglo al anexo II del Convenio MARPOL y el Código IBC	No aplicable.
· Transporte/datos adicionales:	
· ADR	
· Cantidades limitadas (LQ)	500 g
· Cantidades exceptuadas (EQ)	Código: E4 Cantidad neta máxima por envase interior: 1 ml Cantidad neta máxima por embalaje exterior: 500 ml
· Categoría de transporte	2
· Código de restricción del túnel	D/E
· IMDG	
· Limited quantities (LQ)	500 g
· Excepted quantities (EQ)	Code: E4 Maximum net quantity per inner packaging: 1 ml Maximum net quantity per outer packaging: 500 ml
· "Reglamentación Modelo" de la UNECE:	UN 1572 ÁCIDO CACODÍLICO, 6.1, II

ES

( se continua en página 7 )

# Ficha de datos de seguridad

## según 1907/2006/CE, Artículo 31

fecha de impresión 01.08.2016

Revisión: 01.08.2016

**Nombre comercial: ácido dimetilarsonico**

( se continua en página 6 )

### SECCIÓN 15: Información reglamentaria

- **15.1 Reglamentación y legislación en materia de seguridad, salud y medio ambiente específicas para la sustancia o la mezcla**
- **Directiva 2012/18/UE**
- **Sustancias peligrosas nominadas - ANEXO I** No contiene la sustancia.
- **15.2 Evaluación de la seguridad química:** Una evaluación de la seguridad química no se ha llevado a cabo.

### SECCIÓN 16: Otra información

Los datos se fundan en el estado actual de nuestros conocimientos, pero no constituyen garantía alguna de cualidades del producto y no generan ninguna relación jurídica contractual.

· **Abreviaturas y acrónimos:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Carcinogenicidad – Categoría 2