

# Safety Data Sheet acc. to OSHA HCS



Product name: Aminoacetaldehyde dimethyl acetal

# Identification number(s): EC number: 245-026-5

(Contd. of page 1)

4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available. 5 Fire-fighting measures 

 Fire-fighting measures

 Extinguishing media

 Suitable extinguishing agents

 In case of fire, use sand, carbon dioxide or powdered extinguishing agent. Never use water.

 Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

 For safety reasons unsuitable extinguishing agents Water

 Special hazards arising from the substance or mixture

 If this product is involved in a fire, the following can be released:

 Carbon monoxide and carbon dioxide

 Nitrogen oxides (NOx)

 Advice for firefighters

 Protective equipment:

 Wear suff-contined respirator.

 Wear fully protective impervious suit.

 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Do not flush with water or aqueous cleansing agents **Prevention of secondary hazards:** Keep away from ignition sources. **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 Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Koop infiling sources away. Keep ignition sources away. 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: Store away from oxidizing agents. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information: No data Exposure controls Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present.

(Contd. of page 2)

#### Product name: Aminoacetaldehyde dimethyl acetal

Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EU). Protection of hands: Impensious gloves

Tolection of marks. Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. **Material of gloves** Butyl rubber, BR **Penetration time of glove material (in minutes)** 480 **Glove thickness** 0.3 mm **Eve protection**:

Eye protection: Tightly sealed goggles Full face protection

**Body protection:** Protective work clothing.

#### 9 Physical and chemical properties

Information on basic physical and chemical properties General Information

Appearance: Form: Odor: Odor threshold:	Liquid Not determined Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined 135-138 °C (275-280 °F) Not determined
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting:	41 °C (106 °F) Not determined. Not determined Not determined Not determined.
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water): Viscosity: dynamic:	Product is not explosive. However, formation of explosive air/vapor mixtures is possible. Not determined Not determined 0.973 g/cm <sup>3</sup> (8.12 lbs/gal) Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
kinematic: Other information	Not determined. Not determined. No further relevant information available.

## 10 Stability and reactivity

Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions Reacts with strong oxidizing agents Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides

## 11 Toxicological information

### Information on toxicological effects

Acute toxicity: Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes severe skin burns. Eye irritation or corrosion: Causes serious eye damage. Sensitization: No sensitizing effects known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is evollable from the EDA\_IABO\_NITE\_OSULA or ACOULT

Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Carcinogenic categories 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. Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available.

(Contd. on page 4)

# Safety Data Sheet

	Revision date 12/14,
roduct name: Aminoacetaldehyde dimethyl acetal	
Additional ecological information: General notes: Do not allow undiluted product or large quantities to reach ground water, wa Avoid transfer into the environment. Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant information available.	(Contd. of p ter course or sewage system.
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure pro Uncleaned packagings: Recommendation: Disposal must be made according to official regulations	•
14 Transport information	
UN-Number DOT, IMDG, IATA	UN2733
UN proper shipping name DOT IMDG, IATA	Amines, flammable, corrosive, n.o.s. (Aminoacetaldehyde dimethyl acetal) AMINES, FLAMMABLE, CORROSIVE, N.O.S. (Aminoacetaldehyde dimethyl
Transport hazard class(es) DOT	acetal)
Class Label Class Label IMDG, IATA	3 Flammable liquids. 3+8 3 (FC) Flammable liquids 3+8
Class Label	3 Flammable liquids. 3+8
Packing group DOT, IMDG, IATA	III
Environmental hazards:	Not applicable.
Special precautions for user EMS Number: Segregation groups	Warning: Flammable liquids F-E,S-C Alkalis
Transport in bulk according to Annex II of MARPOL73/78 and the IBC (	Code Not applicable.
Transport/Additional information: DOT	
Marine Pollutant (DOT):	No
UN "Model Regulation":	UN2733, Amines, flammable, corrosive, n.o.s. (Aminoacetaldehyde dimethyl acetal), 3 (8), III
15 Regulatory information Safety, health and environmental regulations/legislation specific for th GHS label elements The product is classified and labeled in accordance with Hazard pictograms GHS02 GHS05	e substance or mixture th 29 CFR 1910 (OSHA HCS)
Signal word Danger         Hazard statements         H226 Flammable liquid and vapour.         H314 Causes severe skin burns and eye damage.         Precautionary statements         P260       Do not breathe dust/fume/gas/mist/vapours/spray.         P280       Wear protective gloves/protective clothing/eye protection         P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all c         P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minu         P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting         P304+P340       IF INHALED: Remove victim to fresh air and keep at rest         P310       Immediately call a POISON CENTER/doctor.         P405       Store locked up.         P501       Dispose of contents/container in accordance with local/ret         All components of this product are listed in the U.S. Environmental Protection         All components of this product are listed on the Canadian Non-Domestic Stu         SARA Section 313 (specific toxic chemical listings) Substance is not listed.         Prop 65 - Chemicals known to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.         Prop 65 - Developmental toxicity, female Substance is not listed.	/face protection. ontaminated clothing. Rinse skin with water/shower. ites. Remove contact lenses, if present and easy to do. Continue rinsing. in a position comfortable for breathing. egional/national/international regulations. on Agency Toxic Substances Control Act Chemical substance Inventory. bstances List (NDSL).

### Product name: Aminoacetaldehyde dimethyl acetal

(Contd. of page 4)

- Information about limitation of use: For use only by technically qualified individuals. Other regulations, limitations and prohibitive regulations Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.
- market and use must be observed. Substance is not listed.
  - Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.
Department issuing SDS: Global Marketing Department
Date of preparation / last revision 01/18/2017 / 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
DOT: US Department of Transportation
IA1A: International Air Transport Association
ENECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
HMIS: Horzardous Materials Information System (Canada)
LC50: Lethal concentration, 50 percent
UPNB: very Persistent and very Bioaccumulative
ACGIH: American Conference of Governmental Industrial Hygienists (USA)
OSHA: Occupational Safety and Health Administration (USA)
TTP: National Toxicology Program (USA)
EVA: Environmental Protection Agency (USA)
EVA: Environmental Protection Agency (USA)
Skin Corr. 18: Skin corrosion/irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
Eve Dam. 1: Serious eye damage/eye irrita

USA