



Section 1. Product and Company Identification

Product Name Meglumine
CAS Number 6284-40-8

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Section 2. Hazards Identification

Classification of the substance or mixture

GHS-Labeling: Not a dangerous substance according to GHS.

Other hazards: None known

Section 3. Composition / Information on Ingredients

Common Name Meglumine
Synonym(s) N-Methyl-D-glucamine, D(-)-N-Methylglucamine
Formula $\text{CH}_3\text{NHCH}_2(\text{CHOH})_4\text{CH}_2\text{OH}$
CAS Number 6284-40-8

Section 4. First Aid Measures

Description of first-aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: The following applies to aliphatic amines in general; irritations after contact with eyes and skin. Mucosal irritations, coughing, and dyspnoea after inhalation.

Indication of any immediate medical attention and special treatment needed: No information available.

Section 5. Firefighting Measures

Extinguishing media

Suitable extinguishing media: Water, Carbon dioxide (CO₂), Foam, Dry powder



Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture: Combustible. Risk of dust explosion. Development of hazardous combustion gases or vapors possible in the event of fire. Fire may cause evolution of; nitrogen oxides, nitrous gases.

Advice for firefighters: Special protective equipment for fire-fighters
In the event of fire, wear self-contained breathing apparatus.

Further information: Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Environmental precautions: Do not empty into drains.

Methods and materials for containment and cleaning up: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

Section 7. Handling and Storage

Precautions for safe handling: Observe label precautions.

Conditions for safe storage, including any incompatibilities: Tightly closed. Dry. Store at +15°C to +25°C (+59°F to +77°F).

Section 8. Exposure Controls / Personal Protection

Exposure limit(s): Contains no substances with occupational exposure limit values.

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

Individual protection measures: Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

Eye/face protection: Safety glasses

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Respiratory protection: Required when dusts are generated. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is

necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Section 9. Physical and Chemical Properties

Physical state: solid

Color: white

Odor: odorless

Odor Threshold: No information available.

pH: ca. 11 at 10 g/l 68 °F (20 °C)

Melting point: 128 - 131 °C

Boiling point/boiling range: 410 °F (210 °C) at 1,013 hPa decomposes

Flash point: No information available.

Evaporation rate: No information available.

Flammability (solid, gas): No information available.

Lower explosion limit: No information available.

Upper explosion limit: No information available.

Vapor pressure: No information available.

Relative vapor density: No information available.

Density: No information available.

Relative density: No information available.

Water solubility: 1,000 g/l at 77 °F (25 °C)

Partition coefficient n-octanol/water: log Pow: -3.15 (calculated) (Lit.) Bioaccumulation is not expected.

Autoignition temperature: No information available.

Decomposition temperature: No information available.

Viscosity, dynamic: No information available.

Explosive properties: Not classified as explosive.

Oxidizing properties: none

Bulk density: ca.300 kg/m³

Section 10. Stability and Reactivity

Reactivity: The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Possibility of hazardous reactions: Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitosamines! Violent reactions possible with: Strong oxidizing agents

Conditions to avoid: Strong heating (decomposition).

Incompatible materials: no information available.

Section 11. Toxicological Information

Information on toxicological effects

Likely route of exposure: Eye contact, Skin contact, Ingestion

Acute oral toxicity: LD50 Rat: > 5,000 mg/kg (IUCLID)

Skin irritation: Rabbit; Result, No irritation OECD Test Guideline 404 (IUCLID)

Eye irritation: Rabbit; Result, slight irritation OECD Test Guideline 405 (own results)

Specific target organ systemic toxicity - single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard: Regarding the available data the classification criteria are not fulfilled.

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

ACGIH: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Further information: The following applies to aliphatic amines in general: irritations after contact with eyes and skin. Mucosal irritations, coughing, and dyspnoea after inhalation. Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines, which have shown themselves to be carcinogenic in animal experiments. Handle in accordance with good industrial hygiene and safety practice.

Section 12. Ecological Information

Ecotoxicity

Toxicity to fish: LC50 Danio rerio (zebra fish): > 1,000 mg/l; 96 h OECD Test Guideline 203 (IUCLID)

Toxicity to daphnia and other aquatic invertebrates: EC50 Daphnia magna (Water flea); > 1,000 mg/l; 48 h OECD Test Guideline 202 (IUCLID)

Toxicity to bacteria: EC50 activated sludge: > 1,000 mg/l; 3 h OECD Test Guideline 209 (IUCLID)

Persistence and degradability

Biodegradability: > 90 % OECD Test Guideline 303A (IUCLID) 80 %; 30 d OECD Test Guideline 301D (IUCLID)



Bioaccumulative potential

Partition coefficient n-octanol/water: log Pow: -3.15 (calculated) (Lit.) Bioaccumulation is not expected.

Mobility in soil: No information available.

Additional ecological information: Discharge into the environment must be avoided.

Section 13. Disposal Considerations

Waste Treatment Methods: Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Land transport (DOT): Not classified as dangerous in the meaning of transport regulations.

Air transport (IATA): Not classified as dangerous in the meaning of transport regulations.

Sea transport (IMDG): Not classified as dangerous in the meaning of transport regulations.

Section 15. Regulatory Information

United States of America

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

Clean Water Act: This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A. This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

DEA List I: Not listed

DEA List II: Not listed

US State Regulations

Massachusetts Right to Know: Remarks

California Prop 65 Components: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Notification status

TSCA: All components of the product are listed in the TSCA-inventory.

DSL: All components of this product are on the Canadian DSL.



Section 16. Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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