
Material Safety Data Sheet

Product Name	<u>Meglumine</u>
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Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:**Product Description:** Meglumine**Synonyms:** N-Methyl-D-glucamine**CAS-No:** 6284-40-8**EC-No.:** 228-506-9**Molecular Formula:** C₇H₁₇NO₅

REACH Registration No: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration, or the registration is envisaged for a later registration deadline.

1.2. Relevant identified uses of the substance or mixture and uses advised against:**Recommended Use:** Laboratory chemicals, Manufacture of substances**1.3. Details of the supplier of the safety data sheet:**

- **Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad,
Email: info@finarchemicals.com
Web: www.finarchemicals.com
- **E-Mail Address** safety@finarchemicals.com; info@finarchemicals.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717
- Registered office No: +91 - 79 – 40040085

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

SECTION 2: HAZARDS IDENTIFICATION**2.1. Classification of the substance or mixture:****Classification Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2. Label Elements:**Labeling according Regulation (EC) No 1272/2008**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.1. Substances: Meglumine****3.2. Mixtures:**

Component	CAS-No	EC-No.	Weight %
Meglumine	6284-40-8	228-506-9	99

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:****• General advice**

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

• If inhaled

Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention.

• If Contact with skin

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

• In case of eye contact

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
--------------	------------------

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.

- **If swallowed**

Do NOT induce vomiting. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

We have no description of any symptoms of toxicity.

4.3. Indication of any immediate medical attention and special treatment needed:

No information available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water, alcohol-resistant foam, dry chemical or carbon dioxide.

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

5.2. Special hazards arising from the substance or mixture:

Combustible.

Risk of dust explosion.

Development of hazardous combustion gases or vapours possible in the event of fire.

Fire may cause evolution of: nitrogen oxides, nitrous gases.

5.3. Advice for firefighters:

Special protective equipment for fire-fighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

Suppress (knock down) gases/vapours/mists with a water spray jet.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. 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.

Advice for emergency responders: Protective equipment see section 8.

6.2. Environmental precautions:

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	------------------

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up:

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area.

Avoid generation of dusts.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling:

Ensure adequate ventilation. Avoid contact with skin and eyes. Avoid contact with skin and clothing. Do not ingest. If swallowed then seek immediate medical assistance. Minimize dust generation and accumulation. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities:

Keep in a dry and well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

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

Personal Protective Equipment:

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye & Face Protection

Safety goggles

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

Hand Protection

Full contact: -

Glove Material: Nitrile- Rubber

Glove Thickness: 0.11 mm

Break Through Time: 480 Min.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Other Protective equipment

No data available

Respiratory Protection-

Required when dusts are generated.

Recommended Filter type: Filter P 1 (acc. to DIN 3181) for solid particles of inert substances.

Environmental Exposure Controls

Do not let product enter drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties:**

- **Appearance:** White
- **Physical State:** Powder Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 10.5 (1% aq. Soln.)
- **Melting Point:** 128 °C - 132 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Relative Density** 1.1 – 1.2 g/cm³ at 50 °C
- **Density:** No data available
- **Autoignition Temperature:** 650 °C
- **Volatility:** No data available
- **Bulk Density:** ca. 300 kg/m³
- **Viscosity, dynamic:** No data available

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
--------------	------------------

- **Water/Oil Dist. Co eff.:** No data available
- **Partition Coefficient: n- octanol/water:** Log pow: -3.15 (Calculated)
(Lit.) Bioaccumulation is not expected.
- **Ionicity (in Water):** No data available
- **Lower Explosion Limit:** No data available
- **Upper Explosion Limit:** No data available
- **Boiling Point/Range:** 210 °C
- **Flash Point:** No data available
- **Specific Gravity:** No data available
- **Water Solubility:** 1.000 g/l at 25 °C

9.2. Other information:

- **Molecular Formula:** C₇H₁₇NO₅
- **Molecular Weight:** 195.21g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

Risk of dust explosion.

10.2. Chemical stability:

Stable under normal conditions. Hygroscopic. Air sensitive.

10.3. Possibility of hazardous reactions:

Caution! In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines!

Violent reactions possible with: Strong oxidizing agents

10.4. Conditions to avoid:

Incompatible products. Avoid dust formation.

Strong heating (decomposition).

10.5. Incompatible materials:

Strong oxidizing agents, Oxidizing agent.

10.6. Hazardous decomposition products:

Nitrogen oxides (NO_x), Thermal decomposition can lead to release of irritating gases and vapours,

Carbon monoxide (CO), Carbon dioxide (CO₂)

SECTION 11: TOXICOLOGICAL INFORMATION

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

11.1 Information on toxicological effects:**Acute Oral toxicity:**

LD50 Oral - Rat - > 5.000 mg/kg

LD50 Oral - Rabbit - > 5.000 mg/kg

Acute Inhalation toxicity:

No data available

Acute Dermal toxicity:

No data available

Skin corrosion/irritation:

No data available

Serious eye damage/eye irritation:

No data available

Respiratory or skin sensitization:

No data available

Germ cell mutagenicity:

No data available

Carcinogenicity:

No data available

Reproductive toxicity:

No data available

Teratogenicity:

No data available

Specific target organ toxicity - single exposure:

No data available

Specific target organ toxicity - repeated exposure:

No data available

Aspiration hazard:

No data available

11.2 Further Information:

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Under given conditions, contact with nitrites or nitric acid can lead to the formation of nitrosamines,

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

which have shown themselves to be carcinogenic in animal experiments. Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

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)

12.2 Persistence and degradability:

Biodegradability

> 90 %

OECD Test Guideline 303A

(IUCLID)

80 %; 30 d

OECD Test Guideline 301D

(IUCLID)

Readily biodegradable

12.3 Bioaccumulate potential:

Partition coefficient: n-octanol/water: log Pow: -3.15

(Calculated)

(Lit.) Bioaccumulation is not expected.

12.4 Mobility in soil:

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

No data available

12.5 Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects:

Additional ecological information

Discharge into the environment must be avoided.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Handle uncleaned containers like the product itself.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	Not classified as dangerous in the meaning of transport regulations.		
14.2 Proper shipping name	Not classified as dangerous in the meaning of transport regulations.		
14.3 Class	Not classified as dangerous in the meaning of transport regulations.		
14.4 Packing group	Not classified as dangerous in the meaning of transport regulations.		
14.5 Environmentally hazardous	Not classified as dangerous in the meaning of transport regulations.		
14.6 Special precautions for user	Not classified as dangerous in the meaning of transport regulations.		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code			
Not Relevant			

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

National Legislation

Storage class 10 – 13

Material Safety Data Sheet

Product Name	<u>Meglumine</u>
---------------------	-------------------------

Dust Explosion Class St1

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

SECTION 16: Other information**Training advice:**

Provide adequate information, instruction and training for operators.

References: Not available

Created: 21/01/2021

Disclaimer:

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