
Material Safety Data Sheet

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

1.1. Product identification:**Product Description:** Creatinine**Synonyms:** No information available**CAS-No:** 60-27-5**EC-No.:** 200-466-7**Molecular Formula:** C₄H₇N₃O**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:** Research, analysis**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**Creatinine****SECTION 2: HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture:**

This substance is not classified as dangerous according to European Union legislation.

2.2. Label Elements:**Labelling (REGULATION (EC) No 1272/2008)**

Not a dangerous substance according to GHS.

Labelling (67/548/EEC or 1999/45/EC)

The product does not need to be labelled in accordance with EC directives or respective national laws.

2.3. Other Hazards:

None Known

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

Component	CAS-No	EC-No.	Weight %
Creatinine	60-27-5	200-466-7	>95

SECTION 4: FIRST AID MEASURES**4.1. Description of first aid measures:****• If inhaled**

Remove to fresh air. Get medical attention immediately if symptoms occur.

• If Ingestion

Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.

• If Contact with skin

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

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

- **In case of eye contact**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Get medical attention.
- **If swallowed**
Immediately make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

We have no description of any toxic symptoms.

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

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Water, Foam, Carbon dioxide (CO2), Dry powder

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 material

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

Fire may cause evolution of: Nitrous gases

5.3. Advice for firefighters:

Special protective equipment for firefighters

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.

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

6.2. Environmental precautions:

Do not empty into 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 7.2 and 10.5). 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. Wear personal protective equipment/face protection.

Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. 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:

8.2. Exposure Controls:

- **Appropriate Engineering Controls:**

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

See section 7.1.

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.

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

- **Eye & Face Protection-**

Safety goggles

- **Hand Protection -**

Full contact: -

Glove material:	Nitrile rubber
Glove thickness:	0.11 mm
Break through time:	> 480 min

Splash 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, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet(>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

- **Body Protection-**

- **Respiratory Protection-**

Required when dusts are generated.

- **Environmental Exposure Controls-**

Do not empty into drains.

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

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

- **Appearance:** White
- **Physical State:** Solid
- **Odour:** Odourless
- **pH:** 7.0 to 9.0 at 50 g/l 20°C
- **Melting Point:** 305°C (Decomposition)
- **Ignition Temperature:** No data available
- **Vapor Pressure:** No data available
- **Relative Vapor Density:** No data available
- **Density:** No data available
- **Volatility:** No data available
- **Bulk Density:** 484 kg/m³
- **Odor Threshold:** No data available
- **Viscosity, dynamic:** 10.9 mPa.s at 25°C
- **Water/Oil Dist. Co eff.:** No data available
- **Partition coefficient: n-octanol/water:** log Pow: -1.76
Method (experimental)
(Lit.) Bioaccumulation is not expected.
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** No data available
- **Flash Point:** 290°C
- **Specific Gravity / Density:** No data available
- **Water Solubility:** 90 g/l at 20°C
- **Molecular Weight:** 113.12

9.2. Other information:**Molecular Formula:** C₄H₇N₃O

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

SECTION 10: STABILITY AND REACTIVITY**10.1. Reactivity: -**

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

10.2. Chemical stability: -

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

10.3. Possibility of hazardous reactions: -

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

10.4. Conditions to avoid: -

Temperatures above melting point.

10.5. Incompatible materials: -

No information Available

10.6. Hazardous decomposition products: -

In the event of fire: See chapter 5.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute Oral toxicity**

No information Available

Acute Inhalation Toxicity

No information Available

Acute Dermal toxicity

No information Available

Skin corrosion/irritation

No information Available

Serious eye damage/eye irritation

No information Available

Sensitisation

No information Available

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

Germ cell mutagenicity

No information Available

Carcinogenicity

No information Available

Reproductive toxicity

No information Available

Specific target organ toxicity - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

Based on available data the classification criteria are not met.

11.2 Further Information:

Quantitative data on the toxicity of this product are not available.

Further toxicological data:

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

Other information

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.

Further data:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION**12.1. Toxicity:**

No information Available

12.2 Persistence and degradability:

No information Available

12.3 Bioaccumulate potential:

Partition Coefficient: - n-Octanol/water

log Pow: -1.76

Method (experimental)

(Lit.) Bioaccumulation is not expected.

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

12.4 Mobility in soil:

No information 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

Do not allow to run into surface waters, wastewater, or soil.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

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		

Material Safety Data Sheet

Product Name	<u>Creatinine</u>
---------------------	--------------------------

SECTION 15: Regulatory information

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

EU regulations

Major Accident Hazard 96/82/EC

Legislation Directive 96/82/EC does not apply

National Legislation

Storage class VCI 10-13 other liquids and solids

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3.

Training advice

Provide adequate information, instruction and training for operators.

References: Not available

Created: 10/06/2020

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