

SAFETY DATA SHEET

Product Name : DIMETHYL GLYOXIME

CAS No. : 95-45-4

Revision No. : 00

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

1.1 Product identifiers

Product name : DIMETHYL GLYOXIME

Product Number : 10978

Brand : AZYTUS MATERIAL SCIENCES PVT. LTD

CAS No. : 95-45-4

1.2 Relevant identified user of the substance or mixture and uses advised against

Identified Uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the Safety Data Sheet

Company : AZYTUS MATERIAL SCIENCES PVT. LTD.
Block C, Survey No. 156, 157 & 174, Dhulapally Road, Kompally,
Secunderabad – 500014, India

1.4 Emergency telephone number

Emergency Number, # : +91-8418-232316

SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Flammable solids (Category 2) : H228

2.2 Label elements

Pictogram



Signal word : Warning

Hazard statement(s)

H228 : Flammable solid.

Precautionary statement(s)

P210 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P240 : Ground and bond container and receiving equipment.

P241 : Use explosion-proof electrical/ ventilating/ lighting equipment.

P280 : Wear protective gloves/ protective clothing/ eye protection/ face protection.

P370 + P378 : In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Supplemental Hazard Statements : None

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

Substances

Synonyms	:	2,3-Butanedione dioxime
Formula	:	C4H8N2O2
Molecular Weight	:	116.12
CAS-No.	:	95-45-4

No components need to be disclosed according to the applicable regulations.

SECTION 4: First aid measures

- 4.1** Description of first aid measures
- | | | |
|-------------------------|---|---|
| General advice | : | Consult a physician. Show this safety data sheet to the doctor in attendance. |
| If inhaled | : | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| In case of skin contact | : | Wash off with soap and plenty of water. Consult a physician. |
| In case of eye contact | : | Flush eyes with water as a precaution. |
| If swallowed | : | Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. |
- 4.2** Most important symptoms and effects, both acute and delayed : The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 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 | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
|-------------------------------------|---|--|
- 5.2** Special hazards arising from the substance or mixture : Carbon oxides, Nitrogen oxides (NO_x)
- 5.3** Advice for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4** Further information : Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

- 6.1** Personal precautions, protective equipment and emergency procedures : Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.
- 6.2** Environmental precautions : Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
- 6.3** Methods and materials for containment and cleaning up : Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations . Keep in suitable, closed containers for disposal. Contain spillage, pick up with an electrically protected vacuum cleaner or by wet-brushing and transfer to a container for disposal according to local regulations.
- 6.4** Reference to other sections : For disposal see section 13

SECTION 7: Handling and storage

- 7.1** Precautions for safe handling : Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

- 7.2 Conditions for safe storage, including any incompatibilities : Keep container tightly closed in a dry and well-ventilated place. Store in cool place.
- 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 : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection : Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

Splash contact Material: Nitrile rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection : Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure : Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

- Appearance : A white to off-white powder.
- Odour : No data available
- Odour Threshold : No data available
- pH : No data available
- Melting point/freezing point : 238.0 - 242.0 ° C

Initial boiling point and boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The substance or mixture is a flammable solid with the category 2.
Upper/lower flammability or explosive limits	:	No data available
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	No data available
Water solubility	:	No data available
Partition coefficient: noctanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	No data available
Minimum ignition energy	:	No data available
Conductivity	:	No data available
Relative vapour density	:	No data available
Bulk density	:	500 kg/m ³

SECTION 10: Stability and reactivity

10.1 Reactivity	:	No data available
10.2 Chemical stability	:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	:	No data available
10.4 Conditions to avoid	:	Heat, flames and sparks.
10.5 Incompatible materials	:	Strong oxidizing agents.
10.6 Hazardous decomposition products	:	Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NO _x) Other decomposition products - No data available.

SECTION 11: Toxicological information

11.1 Acute toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/eye irritation	:	No data available
Respiratory or skin sensitisation	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	No data available
Reproductive toxicity	:	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

Additional Information : No data available

SECTION 12: Ecological information

12.1 Toxicity : No data available

12.2 Persistence and degradability : No data available

12.3 Bioaccumulative potential : No data available

12.4 Mobility in soil : No data available

12.5 Results of PBT and vPvB assessment : No data available

12.6 Other adverse effects : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods : **Product**
 Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Contaminated packaging
 Dispose of as unused product.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
UN number	1325	1325	1325
UN proper shipping name	FLAMMABLE SOLID, ORGANIC, N.O.S. (Butanedione dioxime)	FLAMMABLE SOLID, ORGANIC, N.O.S. (Butanedione dioxime)	Flammable solid, organic, n.o.s. (Butanedione dioxime)
Transport hazard class(es)	4.1	4.1	4.1
Packaging group	III	III	III
Environmental hazard	No	No	No
Special precautions for user	No data available	No data available	No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture : This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical Safety Assessment : For this product a chemical safety assessment was not carried out

SECTION 16: Other information

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Disclaimer:

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