

MATERIAL SAFETY DATA SHEET (MSDS)

DIMETHYL GLYOXIME LR (2,3-BUTANEDION DIOXIME)

1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : DIMETHYL GLYOXIME LR (2,3-BUTANEDION DIOXIME)

Product code : D0085700500

Identification of the product : DIMETHL GLYOXIME EXTRA PURE 98%

CAS No: 95-45-4

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

SUVCHEM Company identification Chaitanya Tower, 2nd Floor, Office # 206,

Siddharth Nagar, S.V. Road,

Goregaon (West), Mumbai - 400062,

Maharashtra, India.

Contact: +91 22 28725393 / 94 / 95

Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : F: R11

T: R25

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

: Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301 **Health hazards** : Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228 **Physical hazards**

2.2. Label elements

Labelling EC 67/548 or EC 1999/45



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2. Hazards identification -DSD (continued)

Symbol(s)





Symbol(s) : F : Highly flammable

T : Toxic

R Phrase(s) : R11 : Highly flammable.

R25: Toxic if swallowed.

S Phrase(s) : S45 : In case of accident or if you feel unwell, seek medical advice immediately (

show the label when possible).

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Signal words : Danger

Hazard statements : H228 : Flammable solid.

H301: Toxic if swallowed.

Precautionary statements

• **Prevention** : P240: Ground/bond container and receiving equipment.

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

P210: Keep away from heat, sparks, open flames or hot surfaces. - No smoking. P280: Wear protective gloves, protective clothing, eye protection, face protection.

P264: Wash thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

• Response : P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.

P370+P378: In case of fire: Use for extinction.

• Storage : P405: Store locked up.

• **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste

collection point, in accordance with local, regional, national and/or international

regulation.

2.3. Other hazards

Other hazards : The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : DIMETHL GLYOXIME EXTRA PURE 98%

CAS No :95-45-4 Substance.



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3. Composition/information on ingredients (continued)

Contains no other components or impurities which will influence the classification of the product.

4. First aid measures

4.1. Description of first aid measures

Inhalation : Assure fresh air breathing. Allow the victim to rest.

Skin contact : Remove affected clothing and wash all exposed skin area with mild soap and

water, followed by warm water rinse.

Eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or

redness persist.

Ingestion : Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or

doctor. Specific treatment (see on this label).

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

Symptoms relating to use : Swallowing a small quantity of this material will result in serious health hazard.

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

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek

medical advice (show the label where possible).

5. Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream.

Surrounding fires : Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

Flammable class : Flammable solid.

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory

protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to

enter environment.



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6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.

Ventilate area.

Technical measures : Use special care to avoid static electric charges.

Special precautions : Remove ignition sources. No naked lights. No smoking.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters

sewers or public waters.

6.3. Methods and material for containment and cleaning up

Clean up methods : On land, sweep or shovel into suitable containers. Minimize generation of dust.

Store away from other materials.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage

7.1. Precautions for safe handling

Handling : Handle empty containers with care because residual vapours are flammable. Do

not eat, drink or smoke when using this product. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Proper grounding procedures to avoid static electricity should be followed. Use

explosion-proof electrical, ventilating, lighting, ..., equipment.

Special precautions: No naked lights. No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Storage : Keep only in the original container in a cool, well ventilated place. Keep container

closed when not in use. Keep in fireproof place. Ground/bond container and

receiving equipment.

Storage - away from : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources.

7.3. Specific end use(s)

Specific end use(s) : None.



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8. Exposure controls/personal protection

8.1. Exposure controls

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : Wear approved mask.Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.
 Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Solid.

Colour : White crystalline

Odour : Odorless

Odour threshold: No data available.pH value: Not applicable.Melting point [°C]: 240 - 241 °C

Decomposition point [°C] : N/A
Critical temperature [°C] : N/A
Auto-ignition temperature [°C] : N/A
Flammability (solid, gas) : N/A

Flammable solid.

: N/A

: N/A Flash point [°C] : N/A **Boiling point [°C]** Initial boiling point [°C] : N/A : N/A Final boiling point [°C] : N/A **Evaporation rate** Vapour pressure [20°C] : N/A Vapour pressure mm/Hg : N/A : N/A Vapour density : N/A Density [g/cm3] Relative density, gas (air=1) : N/A

Relative density, liquid (water=1)

Solubility in water [% weight] : Insoluble in water



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9. Physical and chemical properties (continued)

Solubility in water : N/A

Log Pow octanol / water at 20°C : No data available.

Solubility : N/A Viscosity at 40°C [mm2/s] : N/A

9.2. Other information

Explosive properties : N/A
Explosion limits - upper [%] : N/A
Explosion limits - lower [%] : N/A

Oxidising properties : No data available.

10. Stability and reactivity

10.1. Reactivity

Reactivity : Not established.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid

Conditions to avoid : Direct sunlight. Extremely high or low temperatures. Open flame. Overheating.

Heat. Sparks.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products: Fumes. Carbon monoxide. Carbon dioxide.

May release flammable gases.

11. Toxicological information

11.1. Information on toxicological effects



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11. Toxicological information (continued)

Acute toxicity

Inhalation : Based on available data, the classification criteria are not met.
 Dermal : Based on available data, the classification criteria are not met.

• Ingestion : Toxic if swallowed.

Corrosion : Based on available data, the classification criteria are not met. : Based on available data, the classification criteria are not met. Irritation : Based on available data, the classification criteria are not met. Sensitization : Based on available data, the classification criteria are not met. Mutagenicity : Based on available data, the classification criteria are not met. Carcinogenicity : Based on available data, the classification criteria are not met. **Toxic for reproduction** : Based on available data, the classification criteria are not met. STOT-single exposure : Based on available data, the classification criteria are not met. STOT-repeated exposure **Aspiration hazard** : Based on available data, the classification criteria are not met.

12. Ecological information

12.1. Toxicity

Toxicity information: Not established.

12.2. Persistence - degradability

Persistence - degradability : Biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: The substance does not fulfil the criteria to be identified as PBT substance or vPvB

substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.



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13. Disposal considerations

13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with

local/national regulations.

Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Special precautions : Handle empty containers with care because residual vapours are flammable.

Hazardous waste due to toxicity.

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.

UN N° : 2926 H.I. nr : 46 ADR - Class : 4.1

Labelling - Transport : 4.1 : Flammable solids, self-reactive substances and desensitized explosives. 6.1 :

Toxic substances.





ADR - Classification code : FT1

FT1 FT1

ADR - Group : III

ADR - Packing instructions : P002 R001
ADR - Limited Quantity : 5 KG

ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.

UN N° : 2926

IMO-IMDG - Class or division : 4.1 : Flammable solids, self-reactive substances and desensitized explosives. (6.1

: Toxic substances.)



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14. Transport information (continued)

IMO-IMDG - Packing group : III

IMO- IMDG - Packing instructions : P002

IMO-IMDG - Limited quantities : 5 kg

IMO-IMDG - Marine pollution : No

EMS-Nr : F-A S-G

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : FLAMMABLE SOLID, TOXIC, ORGANIC, N.O.S.

UN N° : 2926

IATA - Class or division : 4.1 : Flammable solids, self-reactive substances and desensitized explosives. (6.1

: Toxic substances.)

IATA - Packing group : II

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing :

instruction

- Passenger and Cargo - Maximum : 25 kg

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 449- Cargo only - Maximum Quantity/ : 100 kg

Packing

IATA - Limited Quantites : 10 kg ERG-Nr : 3P

15. Regulatory information

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

Safety, health and environmental: Ensure all national/local regulations are observed.

regulations/legislation specific for the

substance or mixture

REACH Restrictions - Annex XVII : The components of this product are not subject to restrictions.

REACH Authorisation - Annex XIV : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

Chemical Safety Assessment : It has not been carried out.



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In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
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- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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