

## SAFETY DATA SHEET

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

#### 1.1 Product identifiers

Product name	Dimethylglyoxime Solution
CAS number	See section 3
Synonyms	None

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

Identified uses	Laboratory Chemicals
-----------------	----------------------

#### 1.3 Details of the supplier of the safety data sheet

Company	Lab Alley, LLC 12501 Pauls Valley Road Austin, Texas 78737 U.S.A.
Telephone	512-668-9918
Fax	512-886-4008

#### 1.4 Emergency telephone

Emergency Phone #	US & Canada: 1-800-535-5053	INFOTRAC
	International 1-352-323-3500	INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Acute Toxicity - Oral Category 4  
 Eye Damage / Irritation Category 2  
 Reproductive Toxicity Category 1  
 Specific Target Organs/Systemic Toxicity Following Single Exposure Category 2  
 Flammable Liquids Category 2

## 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard statements

H225 Highly flammable liquid and vapor.  
 H302 Harmful if swallowed.  
 H319 Causes serious eye irritation.  
 H360 May damage fertility or the unborn child.  
 H371 May cause damage to organs.

Precautionary statements

P201 Obtain special instructions before use.  
 P202 Do not handle until all safety precautions have been read and understood.  
 P210 Keep away from heat, sparks and open flame. No smoking.  
 P233 Keep container tightly closed.  
 P240 Ground container and receiving equipment.  
 P241 Use explosion-proof equipment.  
 P242 Use only non-sparking tools.  
 P243 Take precautionary measures against static discharge.  
 P260 Do not breathe fumes, mist, vapors, or spray.  
 P264 Wash arms, hands and face thoroughly after handling.  
 P270 Do not eat, drink or smoke when using this product.  
 P280 Wear protective gloves and eye protection.  
 P301+P312 IF SWALLOWED: Call a POISON CENTER or physician if you feel ill.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to remove. Continue rinsing.  
 P308+P311 IF exposed or concerned: Call a POISON CENTER or physician.  
 P308+P313 IF exposed or concerned: Get medical attention.  
 P330 Rinse mouth.  
 P337+P313 If eye irritation persists: Get medical attention.  
 P370+P378 In case of fire: Use dry chemical, foam or carbon dioxide to extinguish.  
 P403+P235 Store in a well-ventilated place. Keep cool.  
 P405 Store locked up.  
 P501 Dispose of contents in accordance with local, state, federal and international regulations.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Ethyl Alcohol	Ethanol	64-17-5	94.05
Methyl Alcohol	Methanol	67-56-1	4.70
Dimethylglyoxime	-	95-45-4	1.25

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	Show this sheet to a doctor if medical advice is needed.
<b>If inhaled</b>	Not expected to require first aid. If necessary, remove to fresh air.
<b>In case of skin contact</b>	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Results in drying and cracking which can lead to secondary infections and dermatitis.
<b>In case of eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva.
<b>If swallowed</b>	IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Dilute immediately with water or milk. Induce vomiting. Call a physician.

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

Harmful if swallowed. Causes serious eye irritation. May damage fertility or the unborn child. May cause damage to organs. Flammable liquid. Primarily toxic by ingestion. If ingested, give large quantity of water and induce vomiting. Call a physician. Contact may cause dryness and cracking of the skin. May cause irritation to the eyes. Wash areas of contact with plenty of water. May cause irritation of the respiratory system. EYE CONTACT: May cause irritation with burning and stinging with possible damage to the cornea and conjunctiva. SKIN CONTACT: Results in drying and cracking which can lead to secondary infections and dermatitis.

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

Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Wash areas of contact with soap and water for at least 15 minutes. Call a physician if irritation develops. Dilute immediately with water or milk. Induce vomiting. Call a physician.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use dry chemical, foam or carbon dioxide to extinguish. Use dry chemical, alcohol foam, or carbon dioxide for extinguishing the surrounding fire.

**Unsuitable extinguishing media** None identified.

## 5.2 Specific hazards arising from the substance or mixture

Highly flammable liquid and vapor. Vapors can flow along surfaces to distant ignition source and flashback. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

## 5.3 Special protective equipment and precautions for firefighters

Wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 5.4 Further information

**Flash Point** Approximately 15.5°C

**Autoignition Temperature** No information available.

### Explosion limits

**Upper** No information available.

**Lower** No information available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

Health	Flammability	Instability	Physical hazards
1	3	0	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Ground container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wear protective gloves and eye protection.

### 6.2 Environmental precautions

Do not flush to sewer.

### 6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Contain spill. Do not flush to sewer. Absorb with suitable inert material (vermiculite, dry sand, etc) and place in a chemical waste container for proper disposal in an approved waste disposal facility. Ventilate area of spill. Have extinguishing agent available in case of fire. Use non-sparking tools and equipment. Dispose of in accordance with local regulations.

## 6.4 Reference to other sections

Refer to protective measures listed in Sections 7 and 8. See section 13 for proper disposal.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Empty containers may be hazardous since they retain product residues.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Store locked up. Store in secure, flammable storage area away from all sources of ignition. Empty

#### Incompatibilities

Oxidizers, platinum, Sodium, Potassium Dioxide, Bromine Pentafluoride, Acetyl Bromide, Acetyl Chloride, heat, sparks, open flame.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Methanol	TWA	200 ppm
Ethanol	PEL-TWA	1000 ppm 1900 mg/m3

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Methanol	TWA	200 ppm
	STEL	250 ppm
Ethanol	STEL	1000 ppm

#### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Methanol	TWA	200 ppm

Methanol	ST	250 ppm
Ethanol	IDLH	3300 ppm
	TWA	1000 ppm 1900 mg/m3

#### Biological occupational exposure limits

Component	Parameter,value	Biological specimen	Remarks
Methanol	15 mg/L	Urine	End of shift (As soon as possible after exposure ceases)

## 8.2 Exposure controls

### Appropriate engineering controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

### Personal protective equipment

#### Eye/face protection

Wear protective gloves and eye protection. Safety glasses or goggles.

#### Skin protection

Wear protective gloves and eye protection. Chemical resistant gloves.

#### Body Protection

Protective work clothing.

#### Respiratory protection

Normal room ventilation is adequate. If the exposure limit is exceeded, a full facepiece respirator with organic vapor cartridge may be worn.

#### Control of environmental exposure

No information available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Colorless to gold
Odor	No information available
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No information available

Boiling Point/Range	Approximately 77°C - Approximately 77°C
Evaporation Rate	No information available
Flammability (solid)	No information available
Flammability or explosive limit	
Upper	No information available
Lower	No information available
Vapor Pressure	No information available
Vapor Density	No information available
Density	0.8
Solubility	No information available
Partition coefficient; n-octanol/water	No information available
Autoignition Temp	No information available
Decomposition Temp	No information available
Viscosity	No information available
Molecular Formula	Mixture
Molecular Weight	Mixture
VOC Content(%)	No information available
Oxidizing properties	No information available

## 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under normal conditions of use and storage.

### 10.2 Chemical stability

Stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Data not available.

### 10.4 Conditions to avoid

Keep away from heat, sparks and open flame. No smoking. Keep container tightly closed.

### 10.5 Incompatible materials

Oxidizers, platinum, Sodium, Potassium Dioxide, Bromine Pentafluoride, Acetyl Bromide, Acetyl Chloride, heat, sparks, open flame.

### 10.6 Hazardous decomposition products

Will not occur.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Product Information, Component Information

##### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methanol	(Rat) 5628 mg/kg	-	-

##### Skin corrosion/irritation

No information available.

##### Serious eye damage/eye irritation

Causes serious eye irritation. Wash arms, hands and face thoroughly after handling. Wear protective gloves and eye protection.

##### Respiratory or skin sensitization

No information available.

##### Germ cell mutagenicity

No information available.

##### Carcinogenicity

No products are listed as known, possible, or suspected carcinogens.

##### Specific target organ toxicity - single exposure

May cause damage to organs. Do not breathe fumes, mist, vapors, or spray. Wash arms, hands and face thoroughly after handling. Do not eat, drink or smoke when using this product.

##### Specific target organ toxicity - repeated exposure

No information available.

##### Reproductive toxicity

May damage fertility or the unborn child. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves and eye protection.

##### Chronic effects

No information available.

### 11.2 Additional Information

No information available.



## SECTION 12: Ecological information

### 12.1 Toxicity

No information available.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bio accumulative potential

No information available.

### 12.4 Mobility in soil

No information available.

### 12.5 Results of PBT and vPvB assessment

No information available.

### 12.6 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal 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

### DOT (US)

UN Number	UN1987
Proper Shipping name	Alcohols, n.o.s.
Hazard Class	3
Packaging Group	II
Technical name	Ethanol, Methanol

### IMDG

UN Number	UN1987
Proper Shipping name	Alcohols, n.o.s.

Hazard Class	3
Packaging Group	II
Technical name	Ethanol, Methanol

#### **IATA**

UN Number	UN1987
Proper Shipping name	Alcohols, n.o.s.
Hazard Class	3
Packaging Group	II
Technical name	Ethanol, Methanol

### **SECTION 15: Regulatory information**

#### **US federal regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed/applicable.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Listed, Methanol (CAS #67-56-1), RQ: 5000 lb.

**SARA 304 Emergency release notification**  
Not listed/applicable.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not listed/applicable.

#### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**  
Not listed/applicable.

**SARA 311/312 Hazardous**  
See section 2 for hazard classifications.

**SARA 313 (TRI reporting)**  
Listed, Methanol (CAS #67-56-1).

#### **Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Listed, Methanol (CAS #67-56-1).

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Not listed/applicable.

**Safe Drinking Water Act**

Contaminate Candidate List.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Listed, Ethanol (CAS #64-17-5).

**US state regulations**

**US. Massachusetts RTK - Substance List**

Listed, Methanol (CAS #67-56-1).

**US. New Jersey Worker and Community Right-to-Know Act**

Listed, Methanol (CAS #67-56-1).

Listed, Ethanol (CAS #64-17-5).

**US. Pennsylvania Worker and Community Right-to-Know Law**

Listed, Methanol (CAS #67-56-1).

Listed, Ethanol (CAS #64-17-5).

**California Proposition 65**

Listed, Methanol (CAS #67-56-1).

Listed, Ethanol (CAS #64-17-5).

**SECTION 16: Other information**

Date of Issue: 8/8/2025

**SECTION 17: Disclaimer**

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.