

CHAITANYA CHS, 2<sup>nd</sup> FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.  
CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

### MATERIAL SAFETY DATA SHEET (MSDS)

#### 1-THGLYCEROL AR

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

##### 1.1. Product identifier

Trade name : 1-THGLYCEROL AR  
Product code : SI0316400500  
Identification of the product : 1-THIOGLYCEROL 90%  
CAS No: 96-27-5

##### 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

Company identification : SUVCHEM  
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 ]

#### 2. Hazards identification -DSD

##### 2.1. Classification of the substance or mixture

##### Classification EC 67/548 or EC 1999/45

Classification : T+; R26  
R29  
Xi; R36/37/38

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -  
Category 3 - Warning (CLP : STOT SE 3) H335  
Acute toxicity, Inhalation - Category 2 - Danger (CLP : Acute Tox. 2) H330  
Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319  
Skin irritation - Category 2 - Warning (CLP : Skin Corr. 2) H315

##### 2.2. Label elements

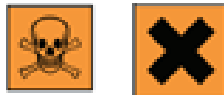
##### Labelling EC 67/548 or EC 1999/45

### MATERIAL SAFETY DATA SHEET (MSDS)

#### 1-THGLYCEROL AR

#### 2. Hazards identification -DSD (continued)

**Symbol(s)**



**Symbol(s)**

: T+ : Very toxic  
Xi : Irritant

**R Phrase(s)**

: R26 : Very toxic by inhalation.  
R29 : Contact with water liberates toxic gas.  
R36/37/38 : Irritating to eyes, respiratory system and skin.

**S Phrase(s)**

: S22 : Do not breathe dust.  
S24/25 : Avoid contact with skin and eyes.  
S36 : Wear suitable protective clothing.

**Labelling Regulation EC 1272/2008 (CLP)**

**Hazard pictograms**



**Signal words**

: Danger

**Hazard statements**

: H330 : Fatal if inhaled.  
H319 : Causes serious eye irritation.  
H315 : Causes skin irritation.  
H335 : May cause respiratory irritation.

**Precautionary statements**

**• Prevention**

: P284: Wear respiratory protection.  
P280: Wear protective gloves, protective clothing, eye protection, face protection.  
P271: Use only outdoors or in a well-ventilated area.  
P260: Do not breathe dust, fume, gas, mist, vapours, spray.  
P264: Wash thoroughly after handling.

**• Response**

: P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P332+P313: If skin irritation occurs : Get medical advice.  
P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P363: Wash contaminated clothing before reuse.

**• Storage**

: P403+P233: Store in well-ventilated place. Keep container tightly closed.  
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.

**MATERIAL SAFETY DATA SHEET (MSDS)**
**1-THGLYCEROL AR**
**3. Composition/information on ingredients**

**Substance / Preparation** : 1-THIOGLYCEROL 90%

Substance.

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** : Specific treatment is urgent (see on this label). Immediately call a POISON CENTER or doctor. Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Specific treatment (see on this label). Wash contaminated clothing before reuse. Wash with plenty of soap and water. If skin irritation occurs : Get medical advice.
- Eye contact** : Rinse cautiously with water for several minutes. Get medical advice. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists :
- Ingestion** : Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting.

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

- Symptoms relating to use** : Fatal if inhaled.  
 Causes serious eye irritation.  
 Causes skin irritation. May cause respiratory irritation.

**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**

- 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.

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**5. Fire-fighting measures (continued)**

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

**6. Accidental release measures**
**6.1. Personal precautions, protective equipment and emergency procedures**

**For emergency responders** : Equip cleanup crew with proper protection. Ventilate area.

**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** : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

**6.4. Reference to other sections**

See section 8. Exposure controls/personal protection

**7. Handling and storage**
**7.1. Precautions for safe handling**

**Handling** : Do not breathe dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wash thoroughly after handling.

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

**Special precautions** : Avoid breathing dust, fume, gas, mist, vapours, spray.

**7.2. Conditions for safe storage, including any incompatibilities**

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

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

**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 respiratory protection.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• 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.
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**9. Physical and chemical properties**
**9.1. Information on basic physical and chemical properties**

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Stench odour
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: N/A
Flash point [°C]	: 113 °C
Boiling point [°C]	: 118 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: N/A
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 1,247
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Slightly soluble in
Solubility in water	: N/A

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**9. Physical and chemical properties (continued)**

Log Pow octanol / water at 20°C : No data available.  
 Solubility : N/A  
 Viscosity at 40°C [mm<sup>2</sup>/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 : Highly reactive material.

**10.2. Chemical stability**

Chemical stability : Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions**

Hazardous reactions : Contact with water liberates toxic gas.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Materials to avoid : Strong acids. Strong bases.

**10.6. Hazardous decomposition products**

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

**11. Toxicological information**
**11.1. Information on toxicological effects**
**Acute toxicity**

- Inhalation : Fatal if inhaled.
- Dermal : Based on available data, the classification criteria are not met.

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#### 11. Toxicological information (continued)

• Ingestion	: Based on available data, the classification criteria are not met.
Corrosion	: Based on available data, the classification criteria are not met.
Irritation	: Causes serious eye irritation. Causes skin irritation. May cause respiratory irritation.
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	: Based on available data, the classification criteria are not met.
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.

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

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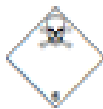
#### 13. Disposal considerations (continued)

<b>General</b>	: 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.
<b>Special precautions</b>	: Hazardous waste due to toxicity.

#### 14. Transport information

##### 14.1. Land transport (ADR-RID)

<b>Proper shipping name</b>	: TOXIC LIQUID, ORGANIC, N.O.S.
<b>UN N°</b>	: 2810
<b>H.I. nr</b>	: 60
<b>ADR - Class</b>	: 6.1
<b>Labelling - Transport</b>	: 6.1 : Toxic substances.



<b>ADR - Classification code</b>	: T1 T1
<b>ADR - Group</b>	: III
<b>ADR - Packing instructions</b>	: P001 R001 LP001
<b>ADR - Limited Quantity</b>	: 5 L
<b>ADR - Tunnel code</b>	



: E : Passage forbidden through tunnels of category E.

##### 14.2. Sea transport (IMDG) [English only]

<b>Proper shipping name</b>	: TOXIC LIQUID, ORGANIC, N.O.S.
<b>UN N°</b>	: 2810
<b>IMO-IMDG - Class or division</b>	: 6.1 : Toxic substances.
<b>IMO-IMDG - Packing group</b>	: III
<b>IMO-IMDG - Packing instructions</b>	: P001 LP01
<b>IMO-IMDG - Limited quantities</b>	: 5 L
<b>IMO-IMDG - Marine pollution</b>	: No
<b>EMS-Nr</b>	: F-A S-A

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

## MATERIAL SAFETY DATA SHEET (MSDS)

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#### 14. Transport information (continued)

Proper shipping name	: TOXIC LIQUID, ORGANIC, N.O.S.
UN N°	: 2810
IATA - Class or division	: 6.1 : Toxic substances.
IATA - Packing group	: III
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 655
- Passenger and Cargo - Maximum Quantity/Packing	: 60 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 663
- Cargo only - Maximum Quantity/Packing	: 220 L
IATA - Limited Quantities	: 2 L
ERG-Nr	: 6L

#### 15. Regulatory information

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

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
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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#### 16. Other information

Revision	: Revision - See : *
Abbreviations and acronyms	: PBT: persistent, bioaccumulative and toxic. vPvB: very persistent and very bioaccumulative
Sources of key data used	: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
Further information	: None.

storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we

**MATERIAL SAFETY DATA SHEET (MSDS)**

**1-THGLYCEROL AR**

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

**DISCLAIMER:**

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **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.

**End of document**