

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)

### METHANOL GRADIENT (METHYL ALCOHOL)

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

##### 1.1. Product identifier

Trade name : METHANOL GRADIENT (METHYL ALCOHOL)

Product code : SS0109202500  
 CAS No: 67-56-1

##### 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 : F; R11  
 T; R23/24/25-R39/23/24/25

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP : STOT SE 1) H370  
 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331  
 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301  
 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311

Physical hazards : Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228

##### 2.2. Label elements

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

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

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

Symbol(s)



Symbol(s)

: F : Highly flammable  
T : Toxic

R Phrase(s)

: R11 : Highly flammable.  
R23/24/25 : Toxic by inhalation, in contact with skin and if swallowed.  
R39/23/24/25 : Toxic : danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

S Phrase(s)

:  
S16 : Keep away from sources of ignition - No smoking.  
S36/37 : Wear suitable protective clothing and gloves.  
S45 : In case of accident or if you feel unwell, seek medical advice immediately ( show the label when possible).

Contains

: Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

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

Hazard pictograms



Signal words

: Danger

Hazard statements

: H228 : Flammable solid.  
H301 : Toxic if swallowed.  
H311 : Toxic in contact with skin.  
H331 : Toxic if inhaled.  
H370 : Causes damage to organ.

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

• Response

: P301+P310: IF SWALLOWED : Immediately call a POISON CENTER or doctor.  
P307+P311: IF EXPOSED : Call a POISON CENTER or doctor.  
P302+P352: IF ON SKIN : Wash with plenty of soap and water.  
P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.  
P363: Wash contaminated clothing before reuse.  
P361: Remove immediately all contaminated clothing.  
P370+P378: In case of fire: Use for extinction.

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### METHANOL GRADIENT (METHYL ALCOHOL)

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

- **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.  
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.
- Contains** : Pentasodium (carboxylatomethyl)iminobis(ethylenenitrilo)tetraacetate

#### 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	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Substance name Pentasodium (carboxylatomethyl) : iminobis(ethylenenitrilo) tetraacetate		583-61-9	209-514-1	----	----	R10 Xn; R22 Xi; R37/38-41  Eye Dam 1 _ H318 Flam. Sol. 2 _ H228 Acute Tox. 4 (oral) _ H302 Skin Irrit. 2 _ H315 STOT SE 3 _ H335

#### 4. First aid measures

##### 4.1. Description of first aid measures

- Inhalation** : Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Remove to fresh air and keep at rest in a position comfortable for breathing.
- Skin contact** : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or doctor. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.
- Eye contact** : Obtain medical attention if pain, blinking or redness persist. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.
- Ingestion** : Specific treatment (see on this label). Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.

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

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

#### 4. First aid measures (continued)

**Symptoms relating to use** : Causes damage to organ.  
 Repeated exposure to this material can result in absorption through skin causing significant health hazard.  
 Danger of serious damage to health by prolonged exposure through inhalation.  
 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). Specific treatment (see on this label). Call a POISON CENTER or doctor.

#### 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.

#### 6. Accidental release measures

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

**For emergency responders** : Equip cleanup crew with proper protection.  
 Ventilate area.  
 Avoid breathing dust, fume, gas, mist, vapours, spray.  
**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

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

#### 6. Accidental release measures (continued)

**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. 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. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. 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 in fireproof place. Keep container tightly closed. 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.

#### 8. Exposure controls/personal protection

##### 8.1. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.

• **Respiratory protection** : In case of insufficient ventilation, wear suitable respiratory equipment. Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

#### 8. Exposure controls/personal protection (continued)

- 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	: Liquid.
Colour	: Colourless
Odour	: Characteristic
Odour threshold	: No data available.
pH value	: Not applicable.
Melting point [°C]	: -98 °C
Decomposition point [°C]	: N/A
Critical temperature [°C]	: N/A
Auto-ignition temperature [°C]	: N/A
Flammability (solid, gas)	: Flammable solid. Highly flammable liquid and vapour.
Flash point [°C]	: 11 °C
Boiling point [°C]	: 64.7 °C
Initial boiling point [°C]	: N/A
Final boiling point [°C]	: N/A
Evaporation rate	: N/A
Vapour pressure [20°C]	: 96.5 (20° C)
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm <sup>3</sup> ]	: 0,8
Relative density, gas (air=1)	: 1,1
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Complete.
Solubility in water	: N/A
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm <sup>2</sup> /s]	: N/A

## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

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

##### 9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: 36,50%
Explosion limits - lower [%]	: 5,50%
Oxidising properties	: No data available.

#### 10. Stability and reactivity

##### 10.1. Reactivity

Reactivity	: Not established.
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##### 10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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##### 10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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##### 10.4. Conditions to avoid

Conditions to avoid	: Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks.
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##### 10.5. Incompatible materials

Materials to avoid	: Strong acids. Strong bases.
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##### 10.6. Hazardous decomposition products

Hazardous decomposition products	: Fumes. Carbon monoxide. Carbon dioxide. May release flammable gases.
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#### 11. Toxicological information

##### 11.1. Information on toxicological effects

Toxicity information	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
Acute toxicity	



## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

#### 11. Toxicological information (continued)

• Inhalation	: Toxic if inhaled.
• Dermal	: Toxic in contact with skin.
• Ingestion	: Toxic if swallowed.
Corrosion	: 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	: Causes damage to organ.
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	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
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##### 12.2. Persistence - degradability

Persistence - degradability	: Biodegradable.
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##### 12.3. Bioaccumulative potential

Bioaccumulative potential	: Not established.
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##### 12.4. Mobility in soil

Mobility in soil	: Not established.
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##### 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.
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##### 12.6. Other adverse effects

Environmental precautions	: Avoid release to the environment.
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## MATERIAL SAFETY DATA SHEET (MSDS)

### METHANOL GRADIENT (METHYL ALCOHOL)

#### 13. Disposal considerations

##### 13.1. Waste treatment methods

<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. Handle empty containers with care because residual vapours are flammable.

#### 14. Transport information

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

<b>Proper shipping name</b>	: METHANOL
<b>UN N°</b>	: 1230
<b>H.I. nr</b>	: 336
<b>ADR - Class</b>	: 3
<b>Labelling - Transport</b>	: 3 : Flammable liquid. 6.1 : Toxic substances.



<b>ADR - Classification code</b>	: FT1
<b>ADR - Group</b>	: II
<b>ADR - Packing instructions</b>	: P001
<b>ADR - Limited Quantity</b>	: 1 L
<b>ADR - Tunnel code</b>	: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.



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

<b>Proper shipping name</b>	: METHANOL
<b>UN N°</b>	: 1230
<b>IMO-IMDG - Class or division</b>	: 3 : Flammable liquid. ( 6.1 : Toxic substances. )
<b>IMO-IMDG - Packing group</b>	: II
<b>IMO-IMDG - Packing instructions</b>	: P001

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### METHANOL GRADIENT (METHYL ALCOHOL)

#### 14. Transport information (continued)

IMO-IMDG - Limited quantities : 1 L  
 IMO-IMDG - Marine pollution : No  
 EMS-Nr : F-E S-D

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

Proper shipping name : METHANOL  
 UN N° : 1230  
 IATA - Class or division : 3 : Flammable liquid. ( 6.1 : Toxic substances. )  
 IATA - Packing group : II  
 IATA - Passenger and Cargo Aircraft : ALLOWED  
   - Passenger and Cargo - Packing : 352  
 instruction  
   - Passenger and Cargo - Maximum : 1 L  
 Quantity/Packing  
 IATA - Cargo only : ALLOWED  
   - Cargo only - Packing instruction : 364  
   - Cargo only - Maximum Quantity/ : 60 L  
 Packing  
 IATA - Limited Quantities : 1 L  
 ERG-Nr : 3L

#### 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.

#### 16. Other information

Revision : Revision - See : \*  
 Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.  
   vPvB: very persistent and very bioaccumulative

**MATERIAL SAFETY DATA SHEET (MSDS)**  
**METHANOL GRADIENT (METHYL ALCOHOL)**

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**