

MATERIAL SAFETY DATA SHEET (MSDS) ETHYL METHYL KETONE LR (BUTANONE)

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

1.1. Product identifier	
Trade name	: ETHYL METHYL KETONE LR (BUTANONE)
Product code	: SS0103002500
1.2 Relevant identified uses of the su	Cas No:78-93-3 Ibstance or mixture and uses advised against
1.2. Relevant identified uses of the su	isstance of mixture and uses advised against
Use	: Industrial. For professional use only.
1.3. Details of the supplier of the safe	<u>ty data sheet</u>
Company identification	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]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification	: F; R11 T; R23/24/25-R39/23/24/25
Hazard Class and Category	<u>y Code(s), Regulation (EC) No 1272/2008 (CLP)</u>
Health hazards	: Specific Target Organ Toxicity - Single exposure - Category 1 - Danger (CLP : STOT SE 1) H370 Acute toxicity, dermal - Category 3 - Danger (CLP : Acute Tox. 3) H311 Acute toxicity, Inhalation - Category 3 - Danger (CLP : Acute Tox. 3) H331 Acute toxicity, Oral - Category 3 - Danger (CLP : Acute Tox. 3) H301
Physical hazards	: Flammable solids - Category 1 - Danger (CLP : Flam. Sol. 1) H228

Labelling EC 67/548 or EC 1999/45

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

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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 1272/20	<u>008 (CLP)</u>	
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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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. 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	: Pre	paration.				
Substance name Pentasodium (carboxylatomethyl) : iminobis(ethylenenitrilo) tetraacetate	Contents	CAS No 583-61-9	EC No 209-514-1	Annex No 	REACH Ref.	Classification R10 Xn; R22 Xi; R37/38-41 ————————————————— Eye Dam 1 _ H318 Flam, Sol. 2 _ H228 Acute Tox. 4 (orai) _ 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. Specific treatment (see on this label). Remove/Take off immediately all contaminated clothing. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. Wash with plenty of soap and water.
Eye contact	: Obtain medical attention if pain, blinking or redness persist. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Specific treatment (see on this label). Immediately call a POISON CENTER or doctor.



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4. First aid measures (continued)

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

Symptoms relating to use	 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. Causes damage to organ.
	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 Unsuitable extinguishing media Surrounding fires <u>5.2. Special hazards arising from the</u>	 Foam. Dry powder. Carbon dioxide. Water spray. Sand. Do not use a heavy water stream. Use water spray or fog for cooling exposed containers.
Flammable class Hazardous combustion products	: Flammable solid. : 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.

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6. Accidental release measures (continued)		
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. Store away from other materials.	
6.4. Reference to other sections		
See section 8. Exposure controls/perso	onal protection	

7. Handling and storage

7.1. Precautions for safe handling

Handling	: Handle empty containers with care because residual vapours are flammable. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid breathing dust, fume, gas, mist, vapours, spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area.		
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. Ground/bond container and receiving equipment. Keep container tightly closed.		
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



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8. Exposure controls/personal protection (continued)		
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. 	
 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

Colour: Clear ColorlessOdour: Sharp mint-like odorOdour threshold: No data available.pH value: Not applicable.Melting point [°C]: -87 °CDecomposition point [°C]: N/ACritical temperature [°C]: N/AAuto-ignition temperature [°C]: 4040CFlammability (solid, gas): Flammable. Flammable. Flammable solid.Flash point [°C]: -3 °CBoiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ASolubility in water [% weight]: 29 g in 100 g of watSolubility in water: N/A	Physical state at 20 °C	: Liquid.
Odour threshold: No data available.pH value: Not applicable.Melting point [°C]: -87 °CDecomposition point [°C]: N/ACritical temperature [°C]: N/AAuto-ignition temperature [°C]: 4040CFlammability (solid, gas): Flammable. Flammable solid.Flash point [°C]: 3 °CBoiling point [°C]: 80 °CInitial boiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	-	•
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Decomposition point [°C]: N/ACritical temperature [°C]: N/AAuto-ignition temperature [°C]: 4040CFlammability (solid, gas): Flammable. Flammable solid.Flash point [°C]: -3 °CBoiling point [°C]: 80 °CInitial boiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	pH value	: Not applicable.
Critical temperature [°C]: N/AAuto-ignition temperature [°C]: 4040CFlammability (solid, gas): Flammable. Flammable solid.Flash point [°C]: -3 °CBoiling point [°C]: 80 °CInitial boiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Melting point [°C]	: -87 °C
Auto-ignition temperature [°C]: 4040CFlammability (solid, gas): Flammable. Flammable solid.Flash point [°C]: -3 °CBoiling point [°C]: 80 °CInitial boiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour density: 2,49Density [g/cm3]: 0,81Relative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Decomposition point [°C]	: N/A
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Boiling point [°C]:80 °CInitial boiling point [°C]:N/AFinal boiling point [°C]:N/AEvaporation rate:2,7Vapour pressure [20°C]:95 hPa at 20 °CVapour pressure mm/Hg:N/AVapour density:2,49Density [g/cm3]:0,81Relative density, liquid (water=1):N/ASolubility in water [% weight]:29 g in 100 g of wat	Flammability (solid, gas)	
Boiling point [°C]: 80 °CInitial boiling point [°C]: N/AFinal boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Flash point [°C]	: -3 °C
Final boiling point [°C]: N/AEvaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat		: 80 °C
Evaporation rate: 2,7Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Initial boiling point [°C]	: N/A
Vapour pressure [20°C]: 95 hPa at 20 °CVapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Final boiling point [°C]	: N/A
Vapour pressure mm/Hg: N/AVapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Evaporation rate	: 2,7
Vapour density: 2,49Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Vapour pressure [20°C]	: 95 hPa at 20 °C
Density [g/cm3]: 0,81Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Vapour pressure mm/Hg	: N/A
Relative density, gas (air=1): N/ARelative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Vapour density	: 2,49
Relative density, liquid (water=1): N/ASolubility in water [% weight]: 29 g in 100 g of wat	Density [g/cm3]	: 0,81
Solubility in water [% weight] : 29 g in 100 g of wat	Relative density, gas (air=1)	: N/A
	Relative density, liquid (water=1)	: N/A
Solubility in water : N/A	Solubility in water [% weight]	• •
	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 [mm2/s] : N/A 9.2. Other information **Explosive properties** : N/A Explosion limits - upper [%] : 10,10% Explosion limits - lower [%] : 1,80% **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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Toxicity information	: The product has been not fully tested. The calculated risk has been done under th requirements of the EU regulations.
Acute toxicity	
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. 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

<u>12.1. Toxicity</u>	
Toxicity information	: The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.
<u>12.2. Persistence - degradability</u>	
Persistence - degradability	: Biodegradable.
12.3. Bioaccumulative potential	
Bioaccumulative potential	: Not established.
<u>12.4. Mobility in soil</u>	
Mobility in soil	: Not established.
12.5. Results of PBT and vPvB assessment	
Results of PBT and vPvB assessmer	It : 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	



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12. Ecological information (continued)	
Environmental precautions	: Avoid release to the environment.
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	: Hazardous waste due to toxicity. Handle empty containers with care because residual vapours are flammable.
14. Transport information	
<u>14.1. Land transport (ADR-RID)</u>	
Proper shipping name UN N°	: ETHYL METHYL KETONE (METHYL ETHYL KETONE) : 1193
H.I. nr ADR - Class	: 33 : 3 : 3 : Flammable liquid.
Labelling - Transport	
ADR - Classification code	: F1 F1
ADR - Group ADR - Packing instructions ADR - Limited Quantity ADR - Tunnel code	: II : P001 R001 : 1 L : 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]



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14. Transport information (continued)

Proper shipping name	: ETHYL METHYL KETONE (METHYL ETHYL KETONE)
UN N°	: 1193
IMO-IMDG - Class or division	: 3 : Flammable liquid.
IMO-IMDG - Packing group	: II
IMO- IMDG - Packing instructions	: P001
IMO-IMDG - Limited quantities	: 1L
IMO-IMDG - Marine pollution	: No
EMS-Nr	: F-E S-D

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

Proper shipping name UN N°	: ETHYL METHYL KETONE (METHYL ETHYL KETONE) : 1193
IATA - Class or division	: 3 : Flammable liquid.
IATA - Packing group	: II
IATA - Passenger and Cargo Aircraft	: ALLOWED
- Passenger and Cargo - Packing instruction	: 353
- Passenger and Cargo - Maximum Quantity/Packing	: 5 L
IATA - Cargo only	: ALLOWED
- Cargo only - Packing instruction	: 364
- Cargo only - Maximum Quantity/ Packing	: 60 L
IATA - Limited Quantites	:1L
ERG-Nr	: 3L

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 th substance or mixture	: Ensure all national/local regulations are observed. e
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.



MATERIAL SAFETY DATA SHEET (MSDS)

ETHYL METHYL KETONE LR (BUTANONE)

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.
- 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