

MATERIAL SAFETY DATA SHEET (MSDS)

TERT-BUTANOL LR (2 METHYL PROPAN-2-OL)

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

1.1. Product identifier

Trade name : TERT-BUTANOL LR (2 METHYL PROPAN-2-OL)

Product code : SS0113602500

Identification of the product : 2-methylpropan-2-ol; tert-butyl alcohol

CAS No :75-65-0 EC No :200-889-7 Annex No :603-005-00-1

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 2

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

Xn; R20 Xi; R36/37

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 4 - Warning (CLP : Acute Tox. 4) H332

Eye irritation - Category 2A - Warning (CLP : Eye Irrit. 2) H319

Physical hazards : Flammable liquids - Category 2 - Danger (CLP : Flam. Liq. 2) H225

2.2. Label elements



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2. Hazards identification -DSD (continued)

Labelling EC 67/548 or EC 1999/45

Symbol(s)





Symbol(s) : F : Highly flammable

Xn: Harmful

R Phrase(s) : R11 : Highly flammable.

R20: Harmful by inhalation.

R36/37: Irritating to eyes and respiratory system.

S Phrase(s) : S2 : Keep out of the reach of children.

S9: Keep container in a well-ventilated place.

S16: Keep away from sources of ignition - No smoking.

S46: If swallowed seek medical advice immediately and show this container or

label.

Contains : 2-methylpropan-2-ol; tert-butyl alcohol

Labelling Regulation EC 1272/2008 (CLP)

Hazard pictograms





Signal words : Danger

Hazard statements : H225 : Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.

H335: May cause respiratory irritation.

Precautionary statements

• **General** : P102: Keep out of reach of children.

P103: Read label before use.

P101: If medical advice is needed, have product container or label at hand.

• **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.

P261: Avoid breathing dust, fume, gas, mist, vapours, spray.

P233: Keep container tightly closed. P264: Wash thoroughly after handling.

• Response : 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.

P303+P361+P353: IF ON SKIN (or hair): Remove immediately all contaminated



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2. Hazards identification -DSD (continued)

clothing. Rinse skin with water/shower.

P337+P313: If eye irritation persists: Get medical advice/attention.

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

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

P403+P235: Store in well-ventilated place. Keep cool.

P405: Store locked up.

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

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

regulation.

Contains : 2-methylpropan-2-ol; tert-butyl alcohol

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.

Composition/information on ingredients

Substance / Preparation 2-methylpropan-2-ol; tert-butyl alcohol

> CAS No: 75-65-0 EC No: 200-889-7 Annex No: 603-005-00-1

Substance.

Contents Substance name 2-methylpropan-2-ol; tert-butyl 100 %

alcohol

CAS No EC No REACH Ref. Classification Annex No F; R11 75-65-0 200-889-7 603-005-00-1

Xn; R20 Xi; R36/37 Flam. Liq. 2 _ H225 Acute Tox. 4 (inhal) _ H332 Eye irrit 2 _ H319 STOT SE 3 _ H335

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

First aid measures

4.1. Description of first aid measures

: Call a POISON CENTER or doctor if you feel unwell. Remove to fresh air and keep Inhalation

at rest in a position comfortable for breathing.

Skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap

and water.

Eye contact : Get medical advice. If eye irritation persists : Remove contact lenses, if present and

easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

: Obtain emergency medical attention. Rinse mouth. Do NOT induce vomiting. Ingestion

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



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4. First aid measures (continued)

Symptoms relating to use : Danger of serious damage to health by prolonged exposure through inhalation.

Causes serious eye 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

Flammable class : Highly flammable liquid and vapour.

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.

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.



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6. Accidental release measures (continued)

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

only outdoors or in a well-ventilated area. Avoid breathing 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. 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 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

Personal protection : Avoid all unnecessary exposure.

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.

• Hand protection : Wear protective gloves.

• Eye protection : Chemical goggles or safety glasses.



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8. Exposure controls/personal protection (continued)

 Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state at 20 °C : Liquid.

Colour : Clear colorless Odour : Camphor like Odour threshold : No data available. pH value : No data available.

Melting point [°C] : 23 - 26°C : N/A Decomposition point [°C] Critical temperature [°C] : N/A : 480°C Auto-ignition temperature [°C] : Flammable. Flammability (solid, gas)

Highly flammable liquid and vapour.

Flash point [°C] : 11 °C : 83 °C **Boiling point [°C]** : N/A Initial boiling point [°C] : N/A Final boiling point [°C] : 1.05 **Evaporation rate**

: 41 hPa at 20°C Vapour pressure [20°C]

: N/A Vapour pressure mm/Hg : 2,6 Vapour density Density [g/cm3] : 0,78 : 2,56 Relative density, gas (air=1) Relative density, liquid (water=1) : N/A Solubility in water [% weight] : Complete. : N/A

Solubility in water

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

Solubility

Viscosity at 40°C [mm2/s] : 3.35 mPa at 30°C

9.2. Other information



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9. Physical and chemical properties (continued)

Explosive properties : N/A
Explosion limits - upper [%] : 8%
Explosion limits - lower [%] : 2,40%

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.

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

Acute toxicity

• Inhalation : Harmful if inhaled.

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

Irritation : Causes serious eye irritation.

May cause respiratory irritation.



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11. Toxicological information (continued)

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.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-single exposure : 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

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.



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13. Disposal considerations (continued)

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

14. Transport information

14.1. Land transport (ADR-RID)

Proper shipping name : BUTANOLS UN N° : 1120 : 33 ADR - Class : 3

Labelling - Transport : 3 : Flammable liquid.



ADR - Classification code : F1
ADR - Group : II

ADR - Packing instructions : P001 R001

ADR - Limited Quantity : 1 L

ADR - Tunnel code : 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]

Proper shipping name : BUTANOLS

UN N° : 1120 IMO-IMDG - Class or division : 3 : Flammable liquid.

IMO-IMDG - Packing group : II
IMO- IMDG - Packing instructions : P001
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 : BUTANOLS



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14. Transport information (continued)

UN N° : 1120

IATA - Class or division : 3: Flammable liquid.

IATA - Packing group

IATA - Passenger and Cargo Aircraft : ALLOWED

- Passenger and Cargo - Packing

instruction

- Passenger and Cargo - Maximum : 5 L

Quantity/Packing

IATA - Cargo only : ALLOWED - Cargo only - Packing instruction : 364 - Cargo only - Maximum Quantity/

Packing

IATA - Limited Quantites : 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

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

15.2. Chemical Safety Assessment

: It has not been carried out. **Chemical Safety Assessment**

16. Other information

Revision : Revision - See : *

Abbreviations and acronyms : PBT: persistent, bioaccumulative and toxic.

vPvB: very persistent and very bioaccumulative

: REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF Sources of key data used

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

List of relevant R phrases (heading 3): R11: Highly flammable.

R20: Harmful by inhalation.

R36/37: Irritating to eyes and respiratory system.

List of full text of H-statements in

section 3

: H225 : Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H332: Harmful if inhaled.



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

DISCLAIMER:

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