

MATERIAL SAFETY DATA SHEET

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Issue Date:

Product Name:	: Isooctane for HPLC, ChromSolv [®] .
Synonym:	: 2,2,4-Trimethylpentane.
Product code:	: BS14407.
CAS Number:	: 540-84-1.
Company Name:	: Briti Scientific.
Company Address:	: Plot No:78/B/13, SY-79, Phase-VI, Jeedimetla, Hyderabad-500 055. Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
540-84-1.	2,2,4-Trimethylpentane.	C_8H_{18}

Section 3- Hazards Identification.

Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Flammable liquids (Category 2), H225 Skin irritation (Category 2), H315 Specific target organ toxicity - single exposure (Category 3), H336 Aspiration hazard (Category 1), H304 Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410 For the full text of the H-Statements mentioned in this Section, see Section 16. Classification according to EU Directives 67/548/EEC or 1999/45/EC F Highly flammable R11 Xn Harmful R65 Xi Irritant R38 R67 N Dangerous for the R50/53 environment For the full text of the R-phrases mentioned in this Section, see Section 16 Label elements



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Labelling according Regulation (EC) No 1272/2008 Pictogram



Signal word Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P261 Avoid breathing vapours.

P273 Avoid release to the environment.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.

P331 Do NOT induce vomiting.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard Statements none

Section 4- First Aid Measures.

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

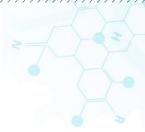
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed



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The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment needed no data available

Section 5- Fire Fighting Measures.

Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Carbon oxides

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Further information

Use water spray to cool unopened containers.

Section 6- Accidental Release Measures.

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

For personal protection see section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

For disposal see section 13.

Section 7- Handling and Storage.

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

For precautions see section 2.2



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Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. **Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

Section 8- Exposure Control/Personal Protection.

Control parameters

Components with workplace control parameters

Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9- Physical and Chemical Properties.

Information on basic physical and chemical properties

- a) Appearance Form: Colorless clear liquid.
- b) Odour no data available



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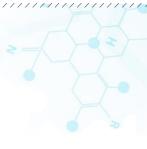
c) Odour Threshold no data available d) pH no data available e) Melting point/freezing -107 °C. point f) Initial boiling point and 99 °C at 1.013 hPa boiling range g) Flash point -12 °C - closed cup h) Evapouration rate no data available i) Flammability (solid, gas) no data available j) Upper/lower Upper explosion limit: 6 %(V) flammability or Lower explosion limit: 1 %(V) explosive limits k) Vapour pressure 55 hPa at 21 °C 117 hPa at 37.80 °C I) Vapour density 3.94 - (Air = 1.0) m) Relative density 0.690 g/cm^3 n) Water solubility insoluble o) Partition coefficient: n- log Pow: 4,6 octanol/water p) Auto-ignition no data available temperature q) Decomposition no data available temperature r) Viscosity no data available s) Explosive properties no data available t) Oxidizing properties no data available 9.2 Other safety information Relative vapour density 3.94 - (Air = 1.0)

Section 10- Stability and Reactivity.

Reactivityno data availableChemical stabilityStable under recommended storage conditions.Possibility of hazardous reactionsno data availableConditions to avoidHeat, flames and sparks. Extremes of temperature and direct sunlight.Incompatible materialsStrong oxidizing agents



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Hazardous decomposition products In the event of fire: see section 5

Section 11- Toxicological Information.

Information on toxicological effects Acute toxicity LD50 Oral - rat - > 5.000 mg/kg (OECD Test Guideline 401) LC50 Inhalation - rat - 4 h - > 33,52 mg/l (OECD Test Guideline 403) LD50 Dermal - rabbit - > 2.000 mg/kg (OECD Test Guideline 402) Skin corrosion/irritation no data available Skin - rabbit Result: Irritating to skin. (OECD Test Guideline 404) Serious eye damage/eye irritation Eyes - rabbit Result: No eye irritation (OECD Test Guideline 405) **Respiratory or skin sensitisation** no data available Germ cell mutagenicity rat Unscheduled DNA synthesis Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. **Reproductive toxicity** no data available Specific target organ toxicity - single exposure May cause drowsiness or dizziness. Specific target organ toxicity - repeated exposure no data available

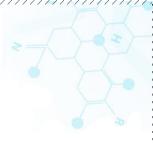
Aspiration hazard

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it

causes a human aspiration toxicity hazard.



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Additional Information

RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Liver - Irregularities - Based on Human Evidence

Section 12- Ecological Information.

Toxicity no data available Persistence and degradability Biodegradability Result: - Biodegradable Bioaccumulative potential Mobility in soil no data available Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted Other adverse effects Very toxic to aquatic life with long lasting effects.

Section 13- Disposal Considerations.

Waste treatment methods

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

Section 14- Transport Information.

Transport information 14.1 UN number ADR/RID: 1262 IMDG: 1262 IATA: 1262 14.2 UN proper shipping name ADR/RID: OCTANES IMDG: OCTANES IATA: Octanes 14.3 Transport hazard class(es) ADR/RID: 3 IMDG: 3 IATA: 3 14.4 Packaging group ADR/RID: II IMDG: II IATA: II



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14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: no **14.6 Special precautions for user** no data available

Section 15- Regulatory Information.

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** no data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

Section 16- Other Information.

Briti Scientific 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. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.



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