# Scientific Laboratory Supplies - Safety Data Sheet

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.1

Revision date: Date printed: 16 April 2021 16 September 2024

**CHE3736** 

## Section 1. Identification

Product Identifier	CHE3736
Product Name	2,2,4-TRIMETHYLPENTANE pure 500ml.
CAS Number REACH Registration No	540-84-1 01-2119457965-22-XXXX
Molecular Formula	(CH <sub>1</sub> ) <sub>2</sub> CCH <sub>2</sub> CH(CH <sub>1</sub> ) <sub>2</sub> =114.23

#### 1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

1.3 Supplier

1.1

Scientific Laboratory Supplies



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(Have this document to hand)

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1.4	Emergency Telephone	(08:00-17:00) (24hr)	0115 9821111

## Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

#### Classification according to regulation 1272/2008/EC

Flammable liquid, category 2 Skin corrosion/irritation, category 2 Spec target organ tox - single, category 3 Aspiration hazard, category 1 Hazard to aquatic environment, category 1 Hazard to aquatic environment, category 1 H225: Highly flammable liquid and vapour.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H304: May be fatal if swallowed and enters airways.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

#### Labelling according to regulation 1272/2008/EC

#### Signal word

Danger



Scientific Laboratory Supplies - Safety Data Sheet

Ref: CHE3736

Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.

Precautionary Statements

Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

### Section 3. Composition

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
2,2,4-trimethylpentane	540-84-1	208-759-1	01-2119457965-22-XXXX	>99.5%	Flam. Liq. 2,Skin Irrit. 2,STOT SE 3 (D),Asp. Tox. 1,Aquatic Acute 1,Aquatic Chronic 1

## Section 4. First Aid

#### 4.1 Description of first aid measures

Eyes	Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL ATTENTION.
Skin	Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.
Inhalation	Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Ingestion	If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen if available. If breathing stops or shows signs of failing, apply artificial resuscitation. If unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.
Personal protection for first aiders	Wear protective gloves / eye protection.

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

No further relevant information available.

#### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

Se	ection 5. Fire Fighting		

#### 5.1 Extinguishing media

Extinguishing Media	Foam, dry powder, carbon dioxide or vaporising liquids. Use water spray to keep fire exposed containers cool.
Unsuitable Media	Do not use water jet.

#### 5.2 Special hazards arising from the substance or mixture

Vapour-air mixtures are explosive.

#### **5.3 Advice for firefighters**

Hazards

Advice for firefighters

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear protective clothing and breathing apparatus.

### Section 6. Accidental Release Measures

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

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate area immediately. Do not allow general use of area until it is safe to do so. Beware : vapour is heavier than air and will tend to accumulate at low spots.

#### **6.2 Environmental precautions**

Enviromental

Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with copious amounts of water.

Minor Spillage Contain and absorb on inert material. Transfer absorbent to container for removal. Allow solvent to evaporate in remote area, then dispose of absorbent as solid chemical waste. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

## Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

All transfer systems should be earthed to prevent accumulation of static electricity. Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage. Protect from direct sun and store away from sources of ignition. Keep containers closed when not in use. Keep well separated from oxidising agents. Large quantities must be stored in accordance with the Petroleum Spirits Act.

#### 7.3 Specific end use(s)

See section 1.2.

## Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

Component	CAS No	Concentration	Workplace Ex		xposure Limits	
			Long Term (8	hr TWA)	Short Term 1	5min period)
2,2,4- trimethylpentane	540-84-1	>99.5%	-	-	-	-

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection	Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well maintained chemical cartridge organic vapour respirator, or use self contained breathing apparatus.
Hand Protection	Use solvent resistant gloves.
Eye Protection	Use tightly fitting chemical splash proof glasses or goggles.
Skin Protection	Avoid contact with skin. If skin contact or contamination of clothing is likely, protective clothing must be worn.
Special Hazards	No special precautions required.

## Section 9. Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Characteristic.
pН	Not applicable
Boiling Point	99°C
Melting Point	-107°C
Flash Point	-12°C (Closed cup)
Upper Flammable Limit	7.5%
Lower Flammable Limit	1.1%
Auto Ignition	418°C
Explosive Properties	Moderate/severe in confined spaces.
Oxidising Properties	No.
Vapour Pressure	50mmHg @ 20°C

Scientific Laboratory Supplies - Safety Data Sheet

Ref: CHE3736

#### 9.2 Other information

No data available.

## Section 10. Stability & Reactivity

10.1	Reactivity	No data available.
10.2	Chemical Stability	Stable under normal conditions
10.3	Possibility of hazardous reactions	No data available.
40.4		
10.4	Conditions to Avoid	Hot surfaces, naked flames or other sources of ignition.
10.4 10.5		Hot surfaces, naked flames or other sources of ignition. Strong oxidising agents.
	Incompatable Materials	

## Section 11. Toxicological Information

#### **11.1 Information on toxicological effects**

Eyes	Both the vapour and liquid will, act as an eye irritant.
Skin	Causes skin irritation. Repeated or prolonged contact may defat the skin producing irritation and dermatitis.
LD50 Skin	>2000mg/kg Rabbit
Ingestion	Ingestion will cause irritation of the throat with nausea and vomiting, unconsciousness may develop in extreme cases. May be fatal if swallowed and enters airways.
LD50 Oral	>10000mg/kg Rat
Inhalation	High concentrations of vapour may cause narcosis. Symptoms include drowsiness, mental confusion and unconsciousness.
LD50 Inhalation	>33.52mg/l Rat
TCLo	Not available
Carcinogenicity	No information is available.
Mutagenicity	Not considered to be a mutagen.
Reproductive Effects	None identified.
Other Information	May cause drowsiness or dizziness.

# Section 12. Ecological

12.1	Toxicity	Very toxic to aquatic life with long lasting effects.
	LC50 Algal	Not available
	LC50 Crustacea	Not available
	LC50 Fish	Not available
12.2	Persistence and degradability	No data available.
12.3	Bioaccumulative potential	No data available.
12.4	Mobility in soil	No data available.
12.5	Results of PBT & vPvB assessment	Assessment not required.
12.6	Other adverse effects	None known at present.

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods

Dispose of in a licensed incinerator for organic solvents. Do not dispose of as domestic waste. Never dispose of into water courses or sewerage systems due to high risk of explosion.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

## Section 14. Transport Information

14.1	UN Number	1262
14.2	Proper Shipping Name	Octanes
14.3	Transport classes	
	UN classification	3
	Subsidiary hazard(s)	None
	Transport category	2
	ADR Hazard ID	33
	Tunnel Restriction Code	D/E
14.4	Packing Group	П
14.5	<b>Environment hazards</b>	See section 12.
14.6	Special precautions for user	No special precautions required.
14.7	Transport in bulk	Not transported in bulk.



## Section 15. Regulatory Information

#### 15.1 Safety, health and environment regulations specific for subtance/mixture.

#### Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

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Classification	Flammable liquid, category 2; Skin corrosion/irritation, category 2; Spec target organ tox - single, category 3; Aspiration hazard, category 1; Hazard to aquatic environment, category 1; Hazard to aquatic environment, category 1
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H225, H304, H315, H336, H410 Highly flammable liquid and vapour. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. Very toxic to aquatic life with long lasting effects.
Precautionary Statements	P233, P280, P261, P301+P310, P331 Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

#### 15.2 Chemical safety assessment

Assessment not required.

### Section 16. Other Information

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological information.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

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