2,2,4-TRIMETHYL PENTANE FOR PESTICIDE RESIDUE TRACE ANALYSIS MSDS

CAS No: 540-89-1 MSDS



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier

Product form : Substance

Trade name : 2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis

CAS No : 540-89-1 Product code : 0352A

Relevant identified uses of the substance or mixture and uses advised against 1.2.

1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemicals, Manufacturing of substances

1.2.2. **Uses advised against**

No additional information available

Details of the supplier of the safety data sheet

Labogens Fine Chem Industries 1st Floor, Above Bank of India, Guru Vihar, Rahon Road, Ludhiana Pb. (141007) +91 9316777775, +91 7707855700 sales@labogens.com - www.Labogens.com

Emergency telephone number

Emergency number : +91 7707855700 (9:00am - 6:00 pm)

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, H225 Category 2

Aspiration hazard, H304

Category 1

Skin corrosion/irritation, H315

Category 2

Specific target organ H336

toxicity — Single exposure, Category 3,

Narcosis

Hazardous to the aquatic H400

environment — Acute Hazard, Category 1

Hazardous to the aquatic H410

environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

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Classification according to Directive 67/548/EEC or 1999/45/EC

F; R11 Xn; R65 Xi; R38 N; R50/53 R67

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)









GHS02

GHS08

GHS07

GHS09

Signal word (CLP) : Danger

Hazard statements (CLP) : 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 statements (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or

doctor/physician

P331 - Do NOT induce vomiting

P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substance

Name : 2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis

CAS No : 540-89-1

Full text of R- and H-phrases: see section 16

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3.2. **Mixture**

Not applicable

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact Rinse skin with water/shower. Remove/Take off immediately all contaminated

clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see

... on this label).

First-aid measures after eye contact Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously

with water for several minutes. If eye irritation persists: Get medical advice/attention.

: Immediately call a POISON CENTER or doctor/physician. First-aid measures after ingestion

Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2). earth, sand, dry

chemical powder or foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General measures

: Remove ignition sources. Use special care to avoid static electric charges. No naked

lights. No smoking.

6.1.1. For non-emergency personnel

No additional information available

For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapours/spray.

Environmental precautions

Avoid release to the environment.

Methods and material for containment and cleaning up

: Collect spillage. On land, sweep or shovel into suitable containers. Soak up spills Methods for cleaning up with inert solids, such as clay or diatomaceous earth as soon as possible.

Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

Precautions for safe handling

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

: No naked lights. No smoking. Use only non-sparking tools. Avoid breathing

dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash ... thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed.

Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/... equipment.

Storage conditions : Keep in fireproof place. Keep container tightly closed.

Incompatible materials : Heat sources

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Hand protection : protective gloves

Eye protection : Chemical goggles or safety glasses

Skin and body protection : Wear suitable protective clothing

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection

equipment is recommended. Wear respiratory protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear Colorless.

Odour : benzene-like.

Odour threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : -107.45 °C

Freezing point : No data available

Boiling point : 98 - 99 °C

Flash point : -12 °C

Auto-ignition temperature : 418

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Decomposition temperature : No data available

Flammability (solid, gas) : Flammable

Highly flammable liquid and vapour

Vapour pressure : 5.4 kPa at 20°C

Relative vapour density at 20 °C : 3.93

Relative density : 0.69194

Density : 0.69194 g/cm³

Solubility : Water: Insoluble in cold water

Log Pow : 4.6

Viscosity, kinematic : No data available

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidising properties : No data available

Explosive limits : 0.01 - 0.06 vol %

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable/explosive vapour-air mixture.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified

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Reproductive toxicity

Specific target organ toxicity (single

exposure)

: May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Very toxic to aquatic life with long lasting effects.

12.2. Persistence and degradability

2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis (540-89-1)

Persistence and degradability May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis (540-89-1)

Log Pow 4.6

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal

recommendations

: Dispose of contents/container to ...

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

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

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14.1. UN number

UN-No. (ADR) : 1262 UN-No. (IMDG) : 1262 UN-No.(IATA) : 1262 UN-No.(ADN) : 1262 UN-No. (RID) : 1262

14.2. UN proper shipping name

Proper Shipping Name (ADR) : OCTANES
Proper Shipping Name (IMDG) : OCTANES
Proper Shipping Name (IATA) : OCTANES
Proper Shipping Name (ADN) : OCTANES
Proper Shipping Name (RID) : OCTANES

Transport document description (ADR) : UN 1262 OCTANES, 3, II, (D/E), ENVIRONMENTALLY HAZARDOUS Transport document description (IMDG) : UN 1262 OCTANES, 3, II, MARINE POLLUTANT/ENVIRONMENTALLY

HAZARDOUS

Transport document description (IATA) : UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS Transport document description (ADN) : UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS : UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS : UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 3
Danger labels (ADR) : 3



IMDG

Transport hazard class(es) (IMDG) : 3
Danger labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3
Hazard labels (IATA) : 3



ADN

Transport hazard class(es) (ADN) : 3
Danger labels (ADN) : 3

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RID

Transport hazard class(es) (RID) : 3
Danger labels (RID) : 3



14.4. Packing group

Packing group (ADR) : II
Packing group (IMDG) : II
Packing group (IATA) : II
Packing group (ADN) : II
Packing group (RID) : II

14.5. Environmental hazards

Dangerous for the environment : Yes
Marine pollutant : Yes

Other information : No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 1L
Excepted quantities (ADR) : E2

Packing instructions (ADR) : P001, IBC02, R001

Mixed packing provisions (ADR) : MP19
Portable tank and bulk container : T4

instructions (ADR)

Portable tank and bulk container special : TP1

provisions (ADR)

Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 2
Special provisions for carriage - Operation : S2, S20

(ADR)

Hazard identification number (Kemler No.) : 33

Orange plates

33 1262

Tunnel restriction code (ADR) : D/E EAC code : 3YE

- Transport by sea

Limited quantities (IMDG) : 1 L
Excepted quantities (IMDG) : E2
Packing instructions (IMDG) : P001

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IBC packing instructions (IMDG)	: IBC02
Tank instructions (IMDG)	: T4
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: B
MFAG-No	: 128

- Air transport

PCA Excepted quantities (IATA) : E2 PCA Limited quantities (IATA) : Y341 PCA limited quantity max net quantity : 1L

(IATA)

PCA packing instructions (IATA) : 353 PCA max net quantity (IATA) : 5L CAO packing instructions (IATA) : 364 CAO max net quantity (IATA) : 60L ERG code (IATA) : 3H

- Inland waterway transport

Classification code (ADN) : F1 Limited quantities (ADN) : 1 L Excepted quantities (ADN) : E2 : T Carriage permitted (ADN)

: PP, EX, A Equipment required (ADN) Ventilation (ADN) : VE01 : 1

Number of blue cones/lights (ADN)

- Rail transport

Classification code (RID) : F1 Limited quantities (RID) : 1L Excepted quantities (RID) : E2

Packing instructions (RID) : P001, IBC02, R001

Mixed packing provisions (RID) : MP19 Portable tank and bulk container : T4

instructions (RID)

Portable tank and bulk container special

provisions (RID)

Tank codes for RID tanks (RID) : LGBF Transport category (RID) : 2 Colis express (express parcels) (RID) : CE7 Hazard identification number (RID) : 33

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: TP1

Not applicable

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis is not on the REACH Candidate List 2,2,4-TRIMETHYL PENTANE For pesticide residue trace analysis is not on the REACH Annex XIV List

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15.1.2. National regulations

Germany

Immission Control Act - 12.BImSchV

12th Ordinance Implementing the Federal : Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be

followed

Recommendations Danish Regulation : Young people below the age of 18 years are not allowed to use the product

Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of R-. H- and FUH-phrases:

nrases:
Hazardous to the aquatic environment — Acute Hazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aspiration hazard, Category 1
Flammable liquids, Category 2
Skin corrosion/irritation, Category 2
Specific target organ toxicity — Single exposure, Category 3, Narcosis
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
Very toxic to aquatic life with long lasting effects
Highly flammable
Irritating to skin
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Harmful: may cause lung damage if swallowed
Vapours may cause drowsiness and dizziness
Highly flammable
Dangerous for the environment
Irritant
Harmful

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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