Scharlau

Safety data sheet according to 1907/2006/EC, Article 31 Commission regulation (EU) 2020/878

Printing date 07.03.2023

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

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

- · 1.1 Product identifier
- · Trade name: 2,2,4-Trimethylpentane, HPLC grade
- Article number: IS0156
- · CAS Number: 540-84-1
- *EC number:* 208-759-1
- Index number: 601-009-00-8
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the preparation: Laboratory reagent
- · 1.3 Details of the supplier of the safety data sheet

• *Manufacturer/Supplier:* Scharlab, S.L.

C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

Regional representation: Scharlab, S.L. C/Gato Pérez, 33. Pol.Ind. Mas d'en Cisa 08181 Sentmenat (Barcelona) SPAIN Tak (124) 03 745 64 00 - FAX: (124) 03 745 27

Tel: (+34) 93 745 64 00 - FAX: (+34) 93 715 27 65 email: scharlab@scharlab.com Internet Web Site: www.scharlab.com

- · Further information obtainable from: technical department
- **1.4 Emergency telephone number:** Please contact the regional Scharlab distributor/dealer in your country During normal opening times: Scharlab, S.L. (+34) 93 715 18 11

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008



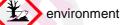
Flam. Liq. 2

H225 Highly flammable liquid and vapour.

health hazard

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



Aquatic Acute 1 H400 Very toxic to aquatic life. Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 2)

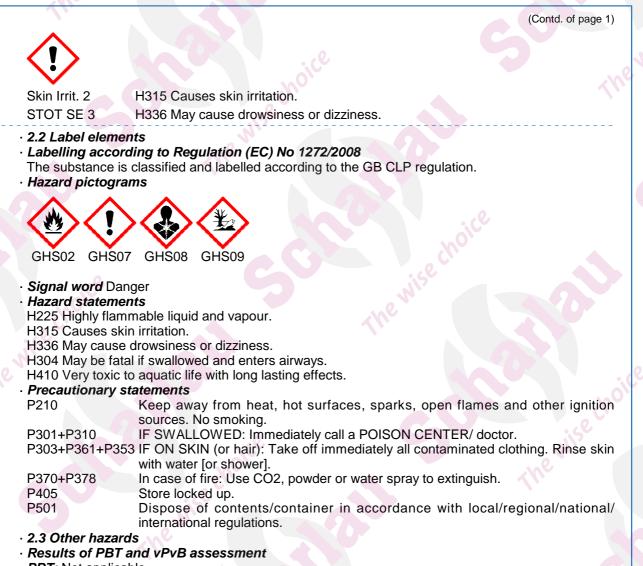
Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade



- **PBT:** Not applicable.
- vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Substances
- CAS No. Description
- 540-84-1 2,2,4-trimethylpentane
- · Identification number(s)
- · EC number: 208-759-1
- · Index number: 601-009-00-8

SECTION 4: First aid measures

- 4.1 Description of first aid measures
- · General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.

(Contd. on page 3)

Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade

(Contd. of page 2)

· After eye contact:

Rinse opened eye for several minutes under running water.

In the event that the injured person wears contact lenses, they must be removed as long as they are not stuck to the eyes, otherwise additional damage could occur.

- · After swallowing: Do not induce vomiting; call for medical help immediately.
- · 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available. · Hazards Aspiration hazard
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- · 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- 6.4 Reference to other sections
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling
- Store in cool, dry place in tightly closed receptacles.
- Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). Information about fire - and explosion protection:

Vapors are heavier than air and may spread along floors.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool, dry, well-ventilated place.
- Store only in unopened original receptacles.
- · Information about storage in one common storage facility: Not required. · Further information about storage conditions:
- See product's label for recommended storage temperature. 7.3 Specific end use(s) No further relevant information available.

(Contd. on page 4)

Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace: Not required.
- · DNELs
- DNEL consumer, prolonged. Systematic effects:
- Inhalative: 608 mg/m3
- Dermic: 699 mg/kg body weight 📀
- Oral: 699 mg/kg body weight
- DNEL for workers, cronic. Systematic effects:
- Inhalative: 2035 mg/m3
- Dermic: 773 mg/kg body weight
- · Additional information: The lists valid during the making were used as basis.

· 8.2 Exposure controls

- · Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
- Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin. Avoid contact with the eyes and skin.

Respiratory protection:

Suitable respiratory protective device recommended. Filter A/P2

Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Nitrile rubber, NBR

- Recommended thickness of the material: \geq 0.38 mm
- Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection



Tightly sealed goggles

(Contd. on page 5)

Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade

(Contd. of page 4)

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
- · Physical state
- · Colour:
- · Odour:
- · Odour threshold:
- Melting point/freezing point:
- Boiling point or initial boiling point and boiling range
- · Flammability
- Lower and upper explosion limit
- · Lower:
- · Upper:
- · Flash point:
- · Ignition temperature:
- Decomposition temperature:
- · pH
- Viscosity:
- · Kinematic viscosity
- Dynamic at 20 °C:
- · Solubility
- water at 25 °C:
- Partition coefficient n-octanol/water (log value)
- · Vapour pressure at 20 °C:
- · Density and/or relative density
- · Density at 20 °C:
- · Relative density
- · Vapour density
- · 9.2 Other information
- · Appearance:

· Form:

- Important information on protection of health and environment, and on safety.
- · Auto-ignition temperature:
- Explosive properties:
- · Molecular weight
- · Change in condition
- Evaporation rate
- Information with regard to physical hazard classes
- · Explosives
- · Flammable gases
- · Aerosols
- · Oxidising gases
- · Gases under pressure
- Flammable liquids
 Flammable solids
- · Traininable solids
- Self-reactive substances and mixtures
- Pyrophoric liquids
 Pyrophoric solids

Fluid Colourless Petrol-like Not determined. -107 °C

99 °C Not applicable.

0.7 Vol % 5.5 Vol % -12 °C 410 °C Not determined. Not determined.

Not determined. 0.49 mPas

0.56 g/l

Not determined. 15 hPa

0.696 g/cm³ Not determined. Not determined.

Fluid

Not determined. Product is not explosive. However, formation of explosive air/vapour mixtures are possible. 114.23 g/mol

Not determined.

Void Void Void Void Void Highly flammable liquid and vapour. Void Void Void

(Contd. on page 6)

regulation (EU) 2020/878 Printing date 07.03.2023 Version number 8.0 (replaces version 7.0) Revision: 07.03.2023 Trade name: 2,2,4-Trimethylpentane, HPLC grade (Contd. of page 5) Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void Desensitised explosives Void SECTION 10: Stability and reactivity 10.1 Reactivity No further relevant information available. 10.2 Chemical stability · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. 10.3 Possibility of hazardous reactions No dangerous reactions known. 10.4 Conditions to avoid No further relevant information available. · 10.5 Incompatible materials: No further relevant information available. 10.6 Hazardous decomposition products: No dangerous decomposition products known. **SECTION 11: Toxicological information** · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity · LD/LC50 values relevant for classification: >5,000 mg/kg (rat) Oral LD50 LD50 >2,000 mg/kg (rabbit) Dermal Inhalative LC50/4 h >33.52 mg/l (rat) · Skin corrosion/irritation Causes skin irritation. STOT-single exposure May cause drowsiness or dizziness. · Aspiration hazard May be fatal if swallowed and enters airways. · 11.2 Information on other hazards · Endocrine disrupting properties Substance is not listed. **SECTION 12: Ecological information** 12.1 Toxicity · Aquatic toxicity: No further relevant information available. · 12.2 Persistence and degradability No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. • 12.4 Mobility in soil No further relevant information available. 12.5 Results of PBT and vPvB assessment PBT: Not applicable. · vPvB: Not applicable. 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- · Additional ecological information:
- · General notes:

Scharlau

Water hazard class 2 (German Regulation) (Assessment by list): hazardous for water Do not allow product to reach ground water, water course or sewage system.

(Contd. on page 7)

Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade

Danger to drinking water if even small quantities leak into the ground.

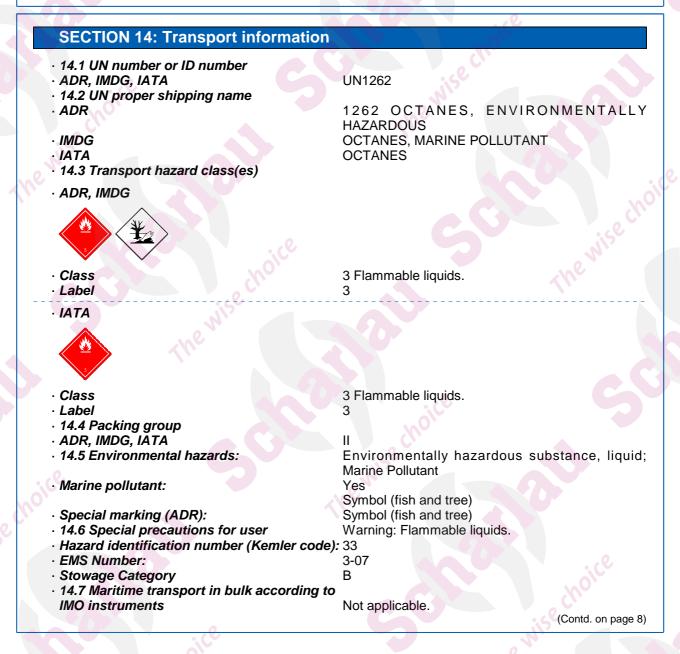
(Contd. of page 6)

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.



Printing date 07.03.2023

Scharlau

Version number 8.0 (replaces version 7.0)

Revision: 07.03.2023

Trade name: 2,2,4-Trimethylpentane, HPLC grade

(Contd. of page 7)

Transport/Additional information:

- · ADR
- Limited quantities (LQ)
- Transport category
- Tunnel restriction code
- UN "Model Regulation":

D/E UN 1262 OCTANES, 3, II, ENVIRONMENTALLY HAZARDOUS

SECTION 15: Regulatory information

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

11

- Directive 2012/18/EU
- Named dangerous substances ANNEX I -

Seveso category

- E1 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: product safety department
- Contact: msds@scharlab.com
- Abbreviations and acronyms:
- RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

- IMDG: International Maritime Code for Dangerous Goods
- IATA: International Air Transport Association
- GHS: Globally Harmonised System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- DNEL: Derived No-Effect Level (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids Category 2 Skin Irrit. 2: Skin corrosion/irritation - Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) Category 3
- Asp. Tox. 1: Aspiration hazard Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment acute aquatic hazard Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1