

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 15 Mar 2024

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product name:

(-)-Menthone

1.1. Catalog No.:

685677

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical uses: R&D

uses:

1.3. Uses advised against:

HPC Standards GmbH Am Wieseneck 7

04451 Cunnersdorf Deutschland

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1.4. Emergency telephone number

HPC Standards Tel. +49 34291 3372-36 This number is only available during office hours.

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Skin sensitisation (Category 1), H317

2.2. Label elements

2.2.1. Pictogram



2.2.2.

2.2 Label elements Labelling according Regulation (EC) No 1272/2008
Pictogram Signal word Warning Hazard statement(s)
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.



Precautionary statement(s)
P280 Wear protective gloves.
P302 + P352 IF ON SKIN: Wash with plenty of water.
Supplemental Hazard
Statements none 2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances
Synonyms: (1R,4S)-p-Menthan-3-one
(2S,5R)-2-Isopropyl-5-methylcyclohexanone
Formula: C10H18O
Molecular weight: 154,25 g/mol
CAS-No.: 14073-97-3
EC-No.: 237-926-1
Component Classification Concentration
L-Menthan-3-one

levels of 0.1% or higher.

L-Menthan-3-one
Skin Irrit. 2; Skin Sens. 1;
H315, H317
<= 100 %

3.1.1. Formula

C10H18O

3.1.2. Molecular Weight (g/mol)

154.25

3.1.3. CAS-No.

14073-97-3



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4. FIRST AID MEASURES

4.1 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. 4.2 Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section

2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

Do NOT use water jet.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers

6. ACCIDENTAL RELEASE MEASURES

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.
6.2 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.

Discharge into the environment must be avoided.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.



7. HANDLING AND STORAGE

7.1 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.
7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry and well-ventilated place. Store in cool place. Recommended storage temperature 2 -

Store under inert gas.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: clear, liquid

Colour: colourless b) Odour characteristic c) Odour Threshold No data available

c) Odour Threshold No data available
d) pH No data available
e) Melting
point/freezing point
Melting point/range: < -20 °C at 1.013 hPa - Regulation (EC)
No. 440/2008, Annex, A.1
f) Initial boiling point
and helips range

and boiling range 207 - 210 °C - lit.

g) Flash point 74 °C - Regulation (EC) No. 440/2008, Annex, A.9 h) Evaporation rate No data available

i) Flammability (solid,

gas) No data available j) Upper/lower flammability or

explosive limits

No data available
k) Vapour pressure 0,8 hPa at 25 °C - OECD Test Guideline 104
l) Vapour density No data available
m) Relative density 0,893 g/cm3 at 20 °C - lit.
n) Water solublity 0,531 g/l at 20 °C - Regulation (EC) No. 440/2008, Annex, A.6 -

partly soluble

o) Partition coefficient:

n-octanol/water

log Pow: 3,05 at 25 °C - OECD Test Guideline 117 -

Bioaccumulation is not expected.

p) Auto-ignition

témperature

390 °C at 1.008 - 1.012 hPa

q) Decomposition

témperature

No data available

r) Viscosity 1,9 mm2/s at 40 °C - OECD Test Guideline 114 - s) Explosive properties No data available

t) Oxidizing properties No data available 9.2 Other safety information

No data available



10. STABILITY AND REACTIVITY

10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid Heat, flames and sparks. 10.5 Incompatible materials

Strong oxidizing agents, Strong reducing agents 10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute toxicity No data available Skin corrosion/irritation Skin - In vitro study Result: Irritating to skin. - 15 min (OECD Test Guideline 439) Remarks: (in analogy to similar products)
Serious eye damage/eye irritation No data available Respiratory or skin sensitisation Local lymph node assay (LLNA) - Mouse Result: positive (OECD Test Guideline 429)

Germ cell mutagenicity

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

In vitro mammalian cell gene mutation test

Chinese hamster lung cells Result: negative OECD Test Guideline 474

Mouse - male and female - Bone marrow

Result: negative 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 No data available

Specific target organ toxicity - repeated exposure No data available Aspiration hazard

No data available Additional Information

Repeated dose toxicity - Rat - male and female - Oral - 103 Weeks - No observed adverse

effect level - > 370 mg/kg

(in analogy to similar products)
RTECS: Not available To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.



12.1 Toxicity

Toxicity to fish semi-static test LC50 - Danio rerio (zebra fish) - > 28 mg/l - 96 h (OECD Test Guideline 203)

Remarks: (in analogy to similar products)

Toxicity to daphnia and other aquatic

invertebrates static test EC50 - Daphnia magna (Water flea) - ca. 30,6 mg/l - 48 h (Regulation (EC) No. 440/2008, Annex, C.2)

Toxicity to algae static test ErC50 - Pseudokirchneriella subcapitata - 58 mg/l - 72 h (OECD Test Guideline 201)

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 and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Harmful to aquatic life. No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Offer surplus and non-recyclable solutions to a licensed disposal company. Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

14.1 UN number ADR/RID: - IMDG: - IATA: - 14.2 UN proper shipping name ADR/RID: Not dangerous goods

IMDG: Not dangerous goods IATA: Not dangerous goods 14.3 Transport hazard class(es)
ADR/RID: - IMDG: - IATA: 14.4 Packaging group
ADR/RID: - IMDG: - IATA: 14.5 Environmental hazards
ADR/RID: - IMDG: Marino pollu

ADR/RID: no IMDG Marine pollutant: no IATA: no

14.6 Special precautions for user

No data available



15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)

. 15.2 Chemical safety assessment For this product a chemical safety assessment was not carried out

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. For lab use only!