

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 16 Aug 2022

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

1.1. Product name:

5-Methyl-3-heptanone

1.1. Catalog No.:

682536

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

Tel. +49 34291 3372-36 Fax. +49 34291 3372-39 contact@hpc-standards.com

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
Flammable liquids (Category 3), H226
Eye irritation (Category 2), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

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) H226 Flammable liquid and vapour.



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H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s)
P280 Wear eye protection/ face protection.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue

rinsing.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P403 + P235 Store in a well-ventilated place. Keep cool.
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 levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.1 Substances Synonyms: Ethyl isoamyl ketone Formula: C8H16O Molecular weight: 128,21 g/mol CAS-No.: 541-85-5 EC-No.: 208-793-7 Index-No.: 606-020-00-1

Component Classification Concentration

5-Methylheptan-3-one Flam. Liq. 3; Eye Irrit. 2; STOT SE 3; H226, H319,

H335

Concentration limits: >= 10 %: STOT SE 3,

H335; <= 100 %

3.1.1. Formula

C8H16O

3.1.2. Molecular Weight (g/mol)

128.21



3.1.3. CAS-No.

541-85-5

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
Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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.
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

6.1 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.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section

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
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.

leakage.
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

YSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
a) Appearance Form: liquid
Colour: light yellow
b) Odour No data available
c) Odour Threshold No data available
d) pH No data available
e) Melting
point/freezing point
-57 °C
f) Initial boiling point
and boiling range
157 - 162 °C
g) Flash point 44 °C - closed cup

g) Flash point 44 °C - closed cup h) Evaporation rate No data available

i) Flammability (solid,

gas) No data available

j) Upper/lower flammability or

explosive limits

No data available

No data available
k) Vapour pressure 3 hPa at 20 °C
l) Vapour density No data available
m) Relative density 0,823 g/mL at 25 °C
n) Water solubility 1,92 g/l at 20 °C1,51 g/l at 40 °C1,24 g/l at 60 °C
o) Partition coefficient:

n-octanol/water

log Pow: 2,3



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p) Auto-ignition
temperature
ca.411 °C
q) Decomposition
temperature
No data available
r) Viscosity No data available s) Explosive properties No data available
t) Oxidizing properties No data available
9.2 Other safety information
Solubility in other
solvents
Alcohol - soluble
Ether - soluble

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 bases, 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

Additional Information RTECS: MJ7350000

11.1 Information on toxicological effects
Acute toxicity
LD50 Oral - Rat - 3.500 mg/kg
LD50 Dermal - Rabbit - > 16.000 mg/kg
Skin corrosion/irritation
Skin - Rabbit
Result: Mild skin irritation
Serious eye damage/eye irritation
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
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 respiratory Irritation Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard
No data available



12. ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity to fish LC50 - Carassius auratus (goldfish) - 80 mg/l - 24 h
Toxicity to daphnia
and other aquatic
invertebrates
- Daphnia magna (Water flea) - 517 mg/l - 24 h
12.2 Persistence and degradability
Biodegradability Result: - Readily biodegradable.
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
No data available

13. DISPOSAL CONSIDERATIONS

13.1 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.

14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 2271 IMDG: 2271 IATA: 2271
14.2 UN proper shipping name
ADR/RID: ETHYL AMYL KETONE
IMDG: ETHYL AMYL KETONES IATA: Ethyl amyl ketone
14.3 Transport hazard class(es)
ADR/RID: 3 IMDG: 3 IATA: 3
14.4 Packaging group
ADR/RID: III IMDG: III IATA: III
14.5 Environmental hazards
ADR/RID: no IMDG Marine pollutant: no IATA: no
14.6 Special precautions for user
No data available

15. REGULATORY INFORMATION



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substance or mixture
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.
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!