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Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH) Classifications according to Regulation (EC) No 1272/2008. Printdate 13 Apr 2022

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

1.1. Product name:

Cumene-d12

1.1. Catalog No.:

1057

1.2. Relevant identified uses of the substance or mixture

Identified: Laboratory chemical

uses: R&D

1.3. Uses advised against:

HPC Standards GmbH Permoserstrasse 15

04318 Leipzig Germany

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Flammable liquids (Category 3), H226
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Aspiration hazard (Category 1), H304
Long-term (chronic) aquatic hazard (Category 2), H411

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 Danger
Hazard statement(s)
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H335 May cause respiratory irritation.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statement(s)
P210 Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking.

P273 Avoid release to the environment.
P301 + P310 + P331 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do

NOT induce vomiting. 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.
May form explosive peroxides.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Synonyms : Isopropylbenzene Formula : C9H12

Molecular weight : 120,19 g/mol CAS-No. : 98-82-8 EC-No. : 202-704-5 Index-No. : 601-024-00-X

Component Classification Concentration

cumene

Flam. Liq. 3; STOT SE 3; Asp. Tox. 1; Aquatic Chronic 2; H226, H335, H304, H411

<= 100 %

3.1.1. Formula

C9D12

3.1.2. Molecular Weight (g/mol)

132.27

3.1.3. CAS-No.

97732-82-6

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice

Consult a physician. Show this material 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 Dry powder Dry sand Unsuitable extinguishing media Do NOT use water jet.

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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 vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors 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.
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). 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 vapor 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. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Store in cool place. Recommended storage temperature 2 - 8 °C

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

.1 Control parameters8.2 Exposure controlsEngineering measuresTechnical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1. Individual protection measuresProtective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier. Hygiene measuresImmediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. Eye/face protection Safety glasses Hand protection

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. This recommendation applies only to the product stated in the safety data sheet supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves. Other protective equipment:Flame retardant antistatic protective clothingRespiratory protectionrequired when vapours/aerosols are generated. Recommended Filter type:Filter A (acc. to DIN 3181) for vapours of orongonic compoundsThe entrepeneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Environmental exposure controls Do not empty into drains. Risk of explosion.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance Form: liquid, clear

Color: colorless

b) Odor No data available

c) Odor Threshold No data available

d) pH No data available e) Melting

point/freezing point Melting point/range: -96 °C - lit. f) Initial boiling point

and boiling range 152 - 154 °C - lit.

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g) Flash point 31,0 °C - closed cup
h) Evaporation rate No data available
i) Flammability (solid,
gas)
No data available
j) Upper/lower
flammability or
explosive limits
Upper explosion limit: 6,5 %(V)
Lower explosion limit: 0,9 %(V)
k) Vapor pressure 10,7 hPa at 20,0 °C
l) Vapor density No data available m) Relative density 0,864 g/mL at 25 °C
n) Water solubility 0,06 g/l at 25 °C - slightly soluble
o) Partition coefficient:
n-octanol/water
log Pow: 3,55 at 23 °C
p) Autoignition
temperature
425,0 °C
q) Decomposition
temperature
No data available

10. STABILITY AND REACTIVITY

r) Viscosity No data available

s) Explosive properties No data available t) Oxidizing properties No data available 9.2 Other safety information Surface tension 27,69 mN/m at 25 °C

10.1 Reactivity
No data available
10.2 Chemical stability
Stable under recommended storage conditions.
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
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 - Rabbit
Result: No skin irritation
(OECD Test Guideline 404)
Drying-out effect resulting in rough and chapped skin Serious eye damage/eye irritation Eyes - Rabbit Result: No eye irritation - 72 h (OECD Test Guideline 405) Respiratory or skin sensitization Maximization Test - Guinea pig Result: negative (OECD Test Guideline 406) Germ cell mutagenicity
Mutagenicity (mammal cell test): chromosome aberration. Chinese hamster ovary cells Result: negative Ames test Salmonella typhimurium Result: negative In vitro mammalian cell gene mutation test Chinese hamster ovary cells Result: negative unscheduled DNA synthesis assay

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rat hepatocytes Result: negative

OECD Test Guideline 474

Mouse - male and female - Red blood cells (erythrocytes)

Result: negative

OECD Test Guideline 474 Rat - male - Bone marrow

Result: Positive results were obtained in some in vivo tests.

Carcinogenicity

IARC: 2B - Group 2B: Possibly carcinogenic to humans (cumene)

Reproductive toxicity

Reproductive toxicity
No data available Specific target organ toxicity - single exposure
Inhalation - May cause respiratory irritation. - Respiratory Tract
Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Acute oral toxicity - gastric pain, Vomiting
Acute inhalation toxicity - mucosal irritations, Cough, Shortness of breath, Headache,
Nausea, Vomiting, Possible damages:, damage of respiratory tract
Specific target organ toxicity - repeated exposure
No data available
Aspiration hazard

Aspiration hazard

Aspiration may cause pulmonary edema and pneumonitis.

Additional Information RTECS: GR8575000

narcosis, Central nervous system depression, Dermatitis, Gastrointestinal disturbance, Damage to the lungs., Liver injury may occur., Kidney injury may occur. To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

After uptake of large quantities: somnolence, Dizziness, narcosis Effect potentiated by: ethanol

Handle in accordance with good industrial hygiene and safety practice

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish flow-through test LC50 - Cyprinodon variegatus (sheepshead

minnow) - 4,7 mg/l - 96 h

(US-EPÁ)

Toxicity to daphnia

and other aquatic

invertebrates

static test EC50 - Daphnia magna (Water flea) - 2,14 mg/l - 48 h

(OECD Test Guideline 202)

Toxicity to algae static test ErC50 - Desmodesmus subspicatus (green algae) - 2,01 mg/l - 72 h (OECD Test Guideline 201)

(OECD Test Guideline 201)
Toxicity to bacteria static test EC50 - activated sludge - > 2.000 mg/l - 3 h
(OECD Test Guideline 209)
12.2 Persistence and degradability
Biodegradability aerobic - Exposure time 20 d
Result: 70 % - Readily biodegradable.
Remarks: (ECHA)
12.3 Bioaccumulative potential
No data available

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

Toxic to aquatic life with long lasting effects.

Discharge into the environment must be avoided

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.

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14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: 1918 IMDG: 1918 IATA: 1918
14.2 UN proper shipping name
ADR/RID: ISOPROPYLBENZENE
IMDG: ISOPROPYLBENZENE
IMTA: Isopropylbenzene
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: yes IMDG Marine pollutant: yes 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 material safety data sheet 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)
:
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!