

Yangzhou Sunchem Co.,Ltd.

Material Safety Data Sheet

Methyl cyclopentadiene dimmer (MCPD)

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

Product identifiers

Product name: Methylcyclopentadiene dimer

CAS-No. 26472-00-4

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Flammable liquids (Category 3)

Germ cell mutagenicity (Category 1B)

Carcinogenicity (Category 1A)

Acute aquatic toxicity (Category 1)

Chronic aquatic toxicity (Category 1)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Flammable. May cause cancer. May cause heritable genetic damage. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Signal word Danger

Hazard statement(s)

H226 Flammable liquid and vapour.

H340 May cause genetic defects

H350 May cause cancer.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P273 Avoid release to the environment.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

P501 Dispose of contents/ container to an approved waste disposal plant.

Supplemental Hazard

Statements none

Restricted to professional users.

According to European Directive 67/548/EEC as amended.

2.3 Other hazards - none

3.COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Formula:C12H16

Molecular Weight:160,26 g/mol

Methylcyclopentadiene dimer

CAS-No. 26472-00-4

EC-No. 247-724-5

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

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.

4.2Most important symptoms and effects, both acute and delayed

Nausea, Headache, Vomiting

4.3Indication of any immediate medical attention and special treatment needed

no data available

5.FIREFIGHTING MEASURES

5.1Extinguishing media

Suitable extinguishing media

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

5.2Special hazards arising from the substance or mixture

Carbon oxides

5.3Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4Further information

Use water spray to cool unopened containers.

6.ACCIDENTAL RELEASE MEASURES

6.1Personal 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 vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1Precautions for safe handling

Avoid exposure – obtain special instructions before use. 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.

7.2Conditions 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.

May darken on storage

7.3Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1Control parameters

Components with workplace control parameters

8.2Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.

Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- a) Appearance Form: clear, 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 Melting point/range: -51 ° C - lit.
- f) Initial boiling point and boiling range 200 ° C - lit.
- g) Flash point 53 ° 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: 10 %(V)
Lower explosion limit: 1 %(V)
- k) Vapour pressure 2,5 hPa at 30 ° C - OECD Test Guideline 104
5,2 hPa at 40 ° C - OECD Test Guideline 104
9,4 hPa at 59 ° C - OECD Test Guideline 104
- l) Vapour density 5,53 - (Air = 1.0)
- m) Relative density 0,941 g/mL at 25 ° C - lit.
- n) Water solubility no data available
- o) Partition coefficient: octanol/water log Pow: 5,6 at 40 ° C - OECD Test Guideline 107
- p) Autoignition temperature 480 ° C at 960 hPa Auto-flammability
- 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

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

no data available

Contains the following stabiliser(s):

4-tert-Butylpyrocatechol (200 ppm)

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Heat, flames and sparks.

10.5 Incompatible materials

Oxidizing agents, acids Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products – no data available

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral – mouse – 7.700 mg/kg

LCLO Inhalation – rat – 4 h – > 495 ppm

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitization

Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.

Germ cell mutagenicity

no data available

Carcinogenicity

IARC:1 – Group 1: Carcinogenic to humans (Benzene)

IARC:3 – Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

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

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

Nausea, Headache, Vomiting

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 20,6 mg/l - 96 h

Toxicity to algae Growth inhibition EC50 - Pseudokirchneriella subcapitata (green algae) - 0,42

mg/l - 72 h

Method: OECD Test Guideline 201

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d

Result: 98 % - Readily biodegradable.

Method: OECD Test Guideline 301

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

Very toxic to aquatic life with long lasting effects.

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: 3295 IMDG: 3295 IATA: 3295

14.2 UN proper shipping name

ADR/RID: HYDROCARBONS, LIQUID, N. O. S.

IMDG: HYDROCARBONS, LIQUID, N. O. S.

IATA: Hydrocarbons, liquid, n. o. s.

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

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

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

no data available

15.2 Chemical Safety Assessment

no data available

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. sunchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.