

Company : OSAKA KASEI CO. LTD.

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SAFETY DATA SHEET (According To 91/155/EEC)

Reported : Hideo Shinohara

issue : May 20, '05

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Product information

- Product name : ISOPROPYL METHYL PHENOL

Company identification

- Name of manufacturer/Supplier : OSAKA KASEI CO. LTD
- Name of section : Environmental health division
- ADDRESS : No.2-6-11 Nakajima, Nishi-yodogawa-ku, Osaka, 555-0041 JAPAN
- Telephone number : 06-6474-5492 • FAX number : 06-6476-2219

2. Composition/information about ingredients

- Substance/Mixture : Substance
- Chemical name : ISOPROPYL METHYL PHENOL (3-methyl-4-isopropylphenol)
- Synonym(S) : o-Cymen-5-OL
- Ingredients and composition : More than 95 %.
- Chemical formula : $C_{10}H_{14}O$; Molecular weight 150.22
- CAS registry number : 3228-02-2
- EINECS/ELINCS-number : 221-761-7

3. Hazards identification

- Class name of hazardous chemicals for SDS in Japan : Not applicable
- Physical and chemical hazards : Flammable powder.
- Environmental effects : Not available
- Adverse human health effects : Slightly irritant to eyes and/or skin.

4. First-aid measures

- Eye contact : Gently rinse the affected eyes with clean water for at least 15 minutes.
And refer for medical attention, if necessarily.
- Skin contact : Wash the affected area under tepid running water using a mild soap.
- Inhalation : Remove the victim from the contamination immediately to fresh air.
And then refer for medical attention, if necessarily.
- Ingestion : Rinse mouth with water, and then refer for medical attention, if necessarily.

5. Fire fighting measures

- Specific hazards with regard to fire fighting measures :
Extinguish the fire by use of the following extinguishing media.
- Extinguishing media : Form, dry-chemical powder or carbon dioxide

6. Accidental release measures

Carefully sweep up in order to avoid raising dust, place in a bag and hold for waste disposal.

7. Handling and storage

- Handling : Do not eat or breathe the dust and/or vapor.
Avoid contact with skin and/or eyes.
- Storage : Keep away from sun-light and store in a cool, dry and well-ventilated location.

8. Control or exposure/individual protection

[Limits for threshold]

- Control parameters : Not established.
- Engineering measures : Good general ventilation should be sufficient for most conditions.

[Individual protection]

Respiratory protection : For most conditions, no respiratory protection should be needed ;

However, in dusty or gassy atmospheres, use an approved respirator.

Eye protection : In dusty or gassy atmospheres, wear protective eye-glasses.

General precautions : Use impervious protectors such as gloves or whole-body suits, as appropriate.

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9. Physical and chemical properties

- Appearance, physical state, form, color, odor : Colorless or white needle crystals.
- Density : Not available
- Flash point : 115°C
- Boiling point : 244°C
- Melting point : 110~113 °C
- Vapor pressure : 2×10^{-3} mm Hg/20°C
- Solubility in water : Slightly soluble
- Solubility in organic solvent : Soluble in polarity solvent such as ethanol.
Ethanol solubility 45.2%(25 °C)

10. Stability and reactivity (physical hazards)

- Auto ignition temperature : Not available.
- Self-reactivity : Stable under normal and anticipated storage or handling condition.
However, may change yellowish color in case of absorbing ultraviolet light.

11. Toxicological information

- Acute toxicity : (Oral) LD₅₀ (Mouse) > 6,280 mg/kg
- Carcinogenic effects : Not available
- Mutagenicity : Negative (Ames test)
- Effects on the re-productive system : Not available
- Teratogenicity : Not available
- Skin sensitization : 2% Negative/Guinea pigs.
- Irritant properties : 2% Negative/Guinea pigs, 1% Negative/Women.

12. Ecological information

- Biodegradability : COD(130 mg-O/l), BOD(3 mg-O/l), TOC(76 mg-C/l)
- Bio-accumulation potential : Not available
- Fish toxicity : Not available

13. Disposal

Burn in a chemical incinerator equipped with an afterburner and scrubber.

14. Transport information

- Avoid rough handling or dropping and protect against physical damage.
- Keep away from sun-light .
- Follow all regulations in your country. (UN class, UN No. : Not applicable)

15. Regulatory requirements

Follow all regulations in your country.

OSAKA KASEI CO., LTD is not able to check up the regulatory information in regard to the substances in your country or region; we request this matter would be filled by your responsibility.

16. OTHER INFORMATION

The information is given to the best our knowledge at the under-mentioned date, and is not a guarantee for properties.

Reported by ; _____
Hideo Shinohara

Date ; _____, 200_