

# Safety Data Sheet

**TOXYSCAN HOTLINE: 1-855-780-0599** 

# 2-(4-Methylphenyl)propane-d<sub>14</sub>

# Section 1. Chemical product and company identifications

**Product code:** D-2709 **Chemical formula:** C<sub>10</sub>D<sub>14</sub> **CAS:** 93952-03-5

**CAS (unlabelled):** 99-87-6

**Synonyms:** *p*-Cymene, 1-Methyl-4-isopropylbenzene, 4-Isopropyltoluene

Supplier / Manufacturer: In case of emergency:

C/D/N Isotopes Inc.

88 Leacock Street

Pointe-Claire (Québec) H9R 1H1

Phone: 514-697-6254

Toll-Free (Canada & USA): 1-800-565-4696

Fax: 514-697-6148

Website: www.cdnisotopes.com

# **Section 2. Hazards identifications**

Physical state: Liquid

Warning: Flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation.

Routes of entry: Inhalation, ingestion, skin and eyes

# GHS (Globally Harmonized System of Classification and Labelling of Chemicals):

**GHS Classification:** - Flammable liquids (Category 3)

Skin irritation (Category 2)Eye irritation (Category 2A)Aspiration hazard (Category 1)

- Specific target organ toxicity - single exposure (Category 3), Respiratory system

**GHS Label elements:** 

- Pictograms:





- Signal word: Danger

**Hazards statement:** - H226 Flammable liquid and vapour.

- H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.H319 Causes serious eye irritation.H335 May cause respiratory irritation.

Precautionary statement: - P210 Keep away from heat/ hot surfaces/ sparks/ open flames/ ignition sources. No smoking.

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- P302 + P350 IF ON SKIN: Wash with plenty of soap and water.

- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

- P317 Get medical help.

# Section 3. Composition and information on ingredients

Name CAS Concentration %

 $2-(4-Methylphenyl)propane-d_{14}$  93952-03-5 > 98

#### Section 4. First aid measures

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

**Skin contact:** Wash off with soap and plenty of water. Consult a physician.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# Section 5. Firefighting measures

Flammability of the product: Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Lower explosion limit: 0.7 Vol% **Upper explosion limit:** 5.6 Vol%

Auto-ignition temperature: 436 °C (817 °F)

Flash point: 47 °C (117 °F)

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides. Firefighting media and instructions: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

#### **Section 6. Accidental release measures**

Personal precautions: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions: Do not let product enter drains. Discharge into the environment must be avoided.

Methods for cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

# Section 7. Handling and storage

Handling: Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Provide appropriate exhaust ventilation. Keep away from sources of ignition - No smoking.

**Storage:** Store at room temperature. Adequate ventilation. Protect from heat and ignition sources.

# Section 8. Exposure Controls, Personal Protections

**Engineering controls:** Use mechanical exhaust or laboratory fumehood to avoid exposure.

Eyes: Safety glasses with side-shields conforming to NIOSH (US) or EN 166 (EU).

Respiratory: 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).

Hands: Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin/body: Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Section 9. Physical and chemical properties (unlabelled)

Molecular weight: 134.22 g/mol

Physical status: Liquid Color: Colorless **Odour:** Aromatic Density: 0.86 g/cm<sup>3</sup>

**Melting point:** -68 °C (-90 °F) **Boiling point:** 176 - 178 °C (349 - 352 °F)

Vapour pressure: 2 hPa (1.5 mmHg) at 20 °C (68 °F)

**Vapour density:**  $4.62 ext{ (Air = 1)}$ 

Partition coefficient (octanol/water): log Pow: 4.1

Water solubility: 23 mg/L

# Section 10. Stability and reactivity

**Stability and reactivity:** Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents.

Products of combustion: Hazardous decomposition products formed under fire conditions: Carbon oxides.

Reactivity conditions: Heat, flames and sparks.

# Section 11. Toxicological information (unlabelled)

**Toxicological data:** *p*-Cymene **Information on ingredients:** 

Name CAS LD<sub>50</sub> LC<sub>50</sub>

p-Cymene 99-87-6 Oral - Rat - 4,750 mg/kg No data available

#### **Potential acute effects**

- Eyes: Causes serious eye irritation.
- Skin: May be harmful if absorbed through skin. Causes skin irritation.
- Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed. Aspiration hazard if swallowed can enter lungs and cause damage.

#### **Potential chronic effects**

- Carcinogenic effects: 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. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- Mutagenic effects: No data available.
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: No data available.

# **Section 12. Ecological information**

# **Ecological data:**

| <u>Name</u>      | <u>Results</u> | <u>Species</u>            | <u>Period</u> |
|------------------|----------------|---------------------------|---------------|
| <i>p</i> -Cymene | 2 mg/l LC50    | Oryzias latipes           | 96 h          |
|                  | 1.9 mg/l EC50  | Daphnia magna             | 48 h          |
|                  | 5.8 mg/l EC50  | Selenastrum capricornutum | 72 h          |

Effects on environment: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Mobility: No data available.

**Environmental precautions:** No data available.

Persistence and degradability: Aerobic. Result: 88 % - Readily biodegradable. Method: OECD Test guideline 301C.

Bioaccumulative potential: No data available.

# Section 13. Disposal considerations

Waste disposal: Contact a licensed professional waste disposal service to dispose of this material.

# Section 14. Transportation information

Classification DOT/IMDG/IATA label:

**Shipping name:** Cymenes **UN number:** UN2046

Class: 3

Packaging group: III

**Additional information:** None

# Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 2 Flammable: 2 Reactivity: 0 Special conditions: None

Legend: 4: Severe, 3: High, 2: Moderate, 1: Slightly, 0: Not hazardous

#### **U.S. Federal regulations:**

**TSCA 8(b) inventory:** *p*-Cymene

SARA 302/304/311/312 extremely hazardous substances: Not Listed SARA 302/304 emergency planning and notification: Not Listed SARA 302/304/311/312 hazardous chemicals: Not Listed

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Fire hazard, Immediate (acute)

health hazard, Delayed (chronic) health hazard: Not Listed

CWA (Clean Water Act) 307: Not Listed CWA (Clean Water Act) 311: Not Listed

CAA (Clean Air Act) 112 accidental release prevention: Not Listed CAA (Clean Air Act) 112 regulated flammable substances: Not Listed CAA (Clean Air Act) 112 regulated toxic substances: Not Listed

#### State regulations:

**DEA List I Chemicals (Precursor Chemicals):** Not Listed **DEA List II Chemicals (Essential Chemicals):** Not Listed

Substances in Massachusetts: Listed

Dangerous substances in New Jersey: Not Listed

New York – Dangerous substances with acute effects: Not Listed Dangerous substances in Pennsylvania – right to know: Listed

#### WHMIS (Canada):



B3 - Combustible liquid



D2B - Toxic material causing other toxic effects

# **Section 16. Additional information**

# **References:**

- ANSI Z400.1, MSDS Standard, 2001.
- Manufacturer's Material Safety Data Sheet.
- 29CFR Part1910.1200 OSHA MSDS Requirements.
- 49CFR Table List of Hazardous Materials, UN#, Proper Shipping Names, PG. -Canada
- Gazette Part II, Vol. 122, No. 2 Registration SOR/88-64 31 December, 1987 Hazardous Products Act "Ingredient Disclosure List".
- Federal act on the controlled products
- Canadian Transport of Dangerous Goods, Regulations and Schedules, Clear Language version 2002.
- Toxicological repertory, HSC.
- Material safety data sheet from the components.

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Elaborated by: Toxyscan Inc., 1-866-780-0599

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