

# Safety Data Sheet

# Phenol-da

# Section 1. Chemical product and company identifications

Product code: D-0029 Chemical formula: C<sub>6</sub>D<sub>6</sub>O

CAS: 13127-88-3

**CAS (unlabelled):** 108-95-2

Synonyms: Hydroxybenzene, Carbolic Acid

**Supplier / Manufacturer:** 

In case of emergency: **TOXYSCAN HOTLINE: 1-855-780-0599** 

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

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Website: www.cdnisotopes.com

**Section 2. Hazards identifications** 

Physical state: Solid

Warning: Toxic if swallowed, in contact with skin or inhaled. Causes severe skin burns and eye damage.

Routes of entry: Inhalation, ingestion, skin and eyes

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

**GHS Classification:** - Acute toxicity, Oral (Category 3)

> - Acute toxicity, Inhalation (Category 3) - Acute toxicity, Dermal (Category 3) - Skin corrosion (Category 1B) - Serious eye damage (Category 1) - Germ cell mutagenicity (Category 2)

- Specific target organ toxicity - repeated exposure (Category 2)

**GHS Label elements:** 

- Pictograms: 🝊





- Signal word: Danger

**Hazards statement:** - H301 + H311 + H331 Toxic if swallowed, in contact with skin or inhaled.

> - H314 Causes severe skin burns and eye damage. - H341 Suspected of causing genetic defects.

- H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary statement:** - 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 + P352 IF ON SKIN: Wash with plenty of soap and water.

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

lenses, if present and easy to do. Continue rinsing. - P316 Get emergency medical help immediately.

## Section 3. Composition and information on ingredients

**Name** CAS **Concentration %** 

Phenol-d<sub>6</sub> 13127-88-3 > 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.

Lower explosion limit: 1.7 Vol% Upper explosion limit: 8.6 Vol%

Auto-ignition temperature: 715 °C (1,319 °F)

Flash point: 79 °C (174 °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 dust formation. Ensure adequate ventilation. Avoid breathing dust.

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

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

# Section 7. Handling and storage

**Handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation. **Storage:** Store at room temperature. Adequate ventilation. Protect from light and moisture.

# **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: 94.11 g/mol

Physical status: Solid Color: White to pink Odour: Pungent

Density: No data available

**Melting point:** 39 - 42 °C (102 - 108 °F)

Boiling point: 182 °C (360 °F)

Vapour pressure: 0.5 hPa (0.4 mmHg) at 20 °C (68 °F)

**Vapour density:** 3.2 (Air = 1)

Partition coefficient (octanol/water): log Pow: 1.46

Water solubility: 84 g/L

## Section 10. Stability and reactivity

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

**Incompatibility:** Strong oxidizing agents, strong bases.

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

Reactivity conditions: No data available

# Section 11. Toxicological information (unlabelled)

Toxicological data: Phenol

**Information on ingredients:** 

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

Phenol 108-95-2 Oral - Rat - 317 mg/kg Inhalation - Rat - 4 h -  $316 \text{ mg/m}^3$ 

Dermal - Rabbit - 630 mg/kg

# **Potential acute effects**

- Eyes: Causes serious eye damage.

- **Skin:** Toxic if absorbed through skin. Causes severe skin burns.
- Inhalation: Toxic if inhaled. May cause respiratory tract irritation.
- Ingestion: Toxic if swallowed.

#### **Potential chronic effects**

- Carcinogenic effects: This product is or contains a component that is not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA classification. IARC: 3 Group 3: Not classifiable as to its carcinogenicity to humans (Phenol).
- Mutagenic effects: In vitro tests showed mutagenic effects.
- Teratogenic effects: No data available.
- Medical conditions aggravated by overexposure: May cause damage to organs through prolonged or repeated exposure.

## Section 12. Ecological information

# **Ecological data:**

<u>Name</u>	<u>Results</u>	<u>Species</u>	<u>Period</u>
Phenol	25 mg/l LC50	Oryzias latipes	96 h
	15 mg/l EC50	Daphnia magna	48 h
	58 mg/l EC50	Selenastrum capricomutum	96 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: Readily biodegradable

Bioaccumulative potential: Danio rerio - 5 h - 2 mg/l. Bioconcentration factor (BCF): 17.5. Remarks: Does not bioaccumulate.

# 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: Phenol, solid

UN number: UN1671

**Class:** 6.1

Packaging group:  ${\rm II}$ 

**Additional information: None** 

## Section 15. Regulatory information

**UNITED STATES: NFPA classification** 



Health: 3 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: Phenol

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: Listed CWA (Clean Water Act) 311: 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: Listed

New York - Dangerous substances with acute effects: Not Listed

Dangerous substances in Pennsylvania – right to know: Listed

## WHMIS (Canada):



D1B - Toxic material causing immediate and serious toxic effects



D2B - Toxic material causing other toxic effects



E - Corrosive material

# **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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