Material Safety Data Sheet

Concentration

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Highly toxic by inhalation

Toxic by ingestion Toxic by skin absorption

Version 3.0 Revision Date 12/28/2008 Print Date 04/21/2010

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : p-Cresol Product Number

61030 Brand Sigma-Aldrich

Company : Sigma-Aldrich Canada, Ltd. 2149 Winston Park Drive OAKVILLE ON L6H 6J8 CANADA : +19058299500 Telephone

: +19058299292 Fax Emergency Phone # : 800-424-9300 2. COMPOSITION/INFORMATION ON INGREDIENTS

: 4-Methylphenol

: C7H8O Molecular Weight : 108.14 g/mol

CAS-No. EC-No. Index-No. p-Cresol 106-44-5 203-398-6

604-004-00-9 -

3. HAZARDS IDENTIFICATION Emergency Overview

Central nervous system, Lungs, Eyes, Liver, Kidney

Target Organs

Synonyms

Formula

WHMIS Classification D1A

Very Toxic Material Causing Immediate and D1B Serious Toxic Effects

HMIS Classification Health Hazard:

Chronic Health Hazard: Flammability: 0 Physical hazards: 1

Potential Health Effects Inhalation Skin

Eyes

May be fatal if inhaled. May cause respiratory tract irritation. Toxic if absorbed through skin. May cause skin irritation.

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May cause eye irritation.

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Storage Keep container tightly closed in a dry and well-ventilated place.

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Light sensitive. Store under inert gas. hygroscopic Air and light sensitive. Handle and store under inert gas.

protection.

Components

p-Cresol

Remarks

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Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

Components with workplace control parameters

Update

2004-04-30

2000-01-12

Basis

218

Canada, Occupational

Health and Safety Code

Canada. Act Respecting Occupational Health and

Safety [R.S.Q., c.2.1], Regulation respecting Occupational Health and

Control

5 ppm

Substance may be readily absorbed through intact skin

5 ppm

22 mg/m3

parameters

22 mg/m3

						Safety (O.C.885-2001), Division XV, Sections 130- 14				
		SKIN (percutaneous): The designation "Pc" in the Designation and remarks column refers to the potentially significant contribution to the overall exposure by the cutaneous route. Exposure is by contact with vapours or, of probable greater significance, by direct skin contact with the substance. The cutaneous route includes mucous membranes and the eyes.								
			TWA	5 ppm 22 mg/m3	2005-02-03	Canada. Occupational Health and Safety Act [R.S.O. 1990, c.1], Industrial Establishments (R.R.O. 1990, Reg 851),139				
		The notation "skin" following the name of an agent in this Schedule indicates that direct or airborne contact with the agents may result in significant absorption of the agent through the skin, mucous membranes or eyes. Vehicles, such as certain solvents, may enhance the rate of skin absorption. Inclusion of this notation is intended to suggest that preventative action should be taken against absorption of the agent through the skin, mucous membranes or eyes.								
			TWA	10 mg/m3	2004-08-01	Canada. Worker's Compensation Act, Occupational Health and Safety Regulations (BC Reg 296/97 as amended), 7.2 [B.C. Reg. 382/2004, s.1]				
		The term "skin" identifies substances that contribute significantly to the overall exposure by the skin route.								
Siç	gma-Aldrich - 61030		Sigma-Aldrich Corporation www.sigma-aldrich.com							

Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the

рΗ Melting point Boiling point

Appearance

Eye protection Safety glasses

Vapour pressure 1.3 hPa (1.0 mmHg) at 20.0 °C (68.0 °F) Density 1.034 g/mL at 25 °C (77 °F) Water solubility no data available

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Bladder:Other changes. Irritation and corrosion Skin - rabbit - Severe irritation - 24 h

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting, Dizziness, Cardiovascular effects., Muscle cramps/spasms.

Signs and Symptoms of Exposure

Potential Health Effects

Target Organs Additional Information

Ecotoxicity effects

invertebrates.

no data available

Product

DOT (US)

DSL Status

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Inhalation

Skin

Eyes Ingestion

Toxicity to fish LC50 - No information available. - 16.00 - 24.00 mg/l - 24 h LC50 - Oncorhynchus mykiss (rainbow trout) - 7.9 mg/l - 96 h Toxicity to daphnia LC50 - Daphnia magna (Water flea) - 1.4 mg/l - 48 h and other aquatic

Further information on ecology

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION

UN-Number: 3455 Class: 6.1 (8) Packing group: II Proper shipping name: Cresols, solid 15. REGULATORY INFORMATION

IMDG UN-Number: 3455 Class: 6.1 (8) Marine pollutant: No

Poison Inhalation Hazard: No

Marine pollutant: No

UN-Number: 3455 Class: 6.1 (8)

Proper shipping name: Cresols, solid

WHMIS Classification D1A Very Toxic Material Causing Immediate and D1B Serious Toxic Effects

All components of this product are on the Canadian DSL list.

Toxic by skin absorption Further information Copyright 2008 Sigma-Aldrich Co. License granted to make unlimited paper copies for internal use only. 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

EMS-No: F-A, S-B

Highly toxic by inhalation

Toxic by ingestion

Ingestion Toxic if swallowed. 4. FIRST AID MEASURES General advice Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician. In case of skin contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician. Continue rinsing eyes during transport to hospital. Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If swallowed Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. 5. FIRE-FIGHTING MEASURES Flammable properties Flash point 85.0 °C (185.0 °F) - closed cup Ignition temperature 559 °C (1,038 °F) Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary. 6. ACCIDENTAL RELEASE MEASURES Personal precautions Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods for cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal. 7. HANDLING AND STORAGE Handling

CAS-No.

106-44-5

Value

TWA

TWA

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Recommended storage temperature: 2 - 8 °C

		ine eyes.								
			TWA	5 ppm 22 mg/m3	2005-02-03	Canada. Occupational Health and Safety Act [R.S.O. 1990, c.1], Industrial Establishments (R.R.O. 1990, Reg 851),139				
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			TWA	10 mg/m3	2004-08-01	Canada. Worker's Compensation Act, Occupational Health and Safety Regulations (BC Reg 296/97 as amended), 7.2 [B.C. Reg. 382/2004, s.1]				
		The term "sk by the skin ro		es substances that	contribute signific	antly to the overall exposure]			
Sigma-Aldrich - 51030 Sigma-Aldrich Corporation www.sigma-aldrich.com										
	(US) or type P means of prote	protection sessment show 2 (EN 143) res ection, use a fu	ws air-purit spirator ca ull-face sup	rtridges as a backi	up to engineering or r. Use respirators	a full-face particle respirator ty controls. If the respirator is the and components tested and ap).	sole			
	Hand protecti Handle with gl	ion			,	•				

Form crystalline Colour colourless Safety data

Flash point 85.0 °C (185.0 °F) - closed cup Ignition temperature 559 °C (1,038 °F) Lower explosion limit 1.1 %(V)

9. PHYSICAL AND CHEMICAL PROPERTIES

no data available

202 °C (396 °F)

log Pow: 1.94

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Olfaction:Other changes.

probable, possible or confirmed human carcinogen by IARC.

May cause eye irritation.

Toxic if swallowed.

Behavioral:Convulsions or effect on seizure threshold. Gastrointestinal:Ulceration or bleeding from stomach.

Remarks: Behavioral:Tremor. Gastrointestinal:Changes in structure or function of salivary glands. Kidney, Ureter,

No component of this product present at levels greater than or equal to 0.1% is identified as

May be fatal if inhaled. May cause respiratory tract irritation. Toxic if absorbed through skin. May cause skin irritation.

Central nervous system, Lungs, Eyes, Liver, Kidney,

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal

Packing group: II

32 - 34 °C (90 - 93 °F)

32 - 35 °C (90 - 95 °F)

10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions. Materials to avoid

Hazardous decomposition products

Partition coefficient:

n-octanol/water

Oxidizing agents, Bases

11. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 207.0 mg/kg

Acute toxicity

IARC:

Eyes - rabbit - Severe irritation Sensitisation no data available Chronic exposure

LC50 Inhalation - rat - 1 h - > 710.0 mg/m3

LD50 Dermal - rabbit - 301.0 mg/kg

RTECS: GO6475000 12. ECOLOGICAL INFORMATION Elimination information (persistence and degradability)

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service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Packing group: II Proper shipping name: CRESOLS, SOLID

16. OTHER INFORMATION

product. Sigma-Aldrich Co., 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.

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