

Material Safety Data Sheet

WHMIS (Pictograms)

WHMIS (Classification)

Protective Clothing



CLASS B-4: Flammable solid. Class D-2B: Material causing other toxic effects (TOXIC).



Product Name / Trade name	Naphthalene	Associated NAPHTHALENE Product's Item Code
Synonym	Refined naphthalene	CAS# 91-20-3
Chemical Family	Aromatic hydrocarbon.	DSL CEPA DSL: Naphthalene
Chemical Formula	CroHa	Validation Date 5/18/2001.
		Print Date 5/18/2001.
Manufacturer	Recochem Inc. 650-Montee de Liesse Montreal, Cuebec 514-341-3550	In Case of Recochem Inc. Emergency Communications and Regulatory Affa Department
Materiał Uses	Consumer products: Moth preventative.	(905) 791-1788

Section 2. Hazardous Ingredients					
Name	e CAS# % by E Weight Canadian Values (ACGIH)			posure Limits U.S. Values (OSHA)	
1) Naphthalene	91-20-3	100	TWA: 10 ppm from ACGIH (Canada, 1999). Period: 8 hour(s). TWA: 52 mg/m³ from ACGIH (Canada, 1999). Period: 8 hour(s). STEL: 15 ppm from ACGIH (Canada, 1999). Period: 15 minute(s). STEL: 79 mg/m³ from ACGIH (Canada, 1999). Period: 15 minute(s).	1) TWA: 10 ppm from OSHA (United States, Naphthale 1999). Period: 8 hour(s). TWA: 50 mg/m² from OSHA (United States, 1999). Period: 8 hour(s).	

Section 3. Emerge	ncy Overview		
Hazard Overview	WARNING.I FLAMMABLE SOLID, skin sensitizer. Harmful If swallowed. Keep out of reach of children. Keep in a cool, well-ventifated place. Avoid contact with eyes, skin and clothing. DO NOT ingest. Avoid breathing dust. Wash thoroughly after handling.		
Potential Acute Health Effects	Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. May cause skin sensitization.		
Note to Physician	Not available.		

Section 4. First Aid Measures		
Eye Contact	IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. If initiation persists, seek medical attention.	
Skin Contact	After contact with skin, wash immediately with plenty of water. If irritation persists, seek medical attention.	
Inhalation	Allow the victim to rest in a well ventilated area. Seek medical attention.	
Ingestion	DO NOT induce vomiting. Have conscious person drink saveral glasses of water or milk. SEEK IMMEDIATE MEDICAL ATTENTION.	

Section 5. Fire Fighting Measures		
Products of Combustion	These products are carbon oxides (CO, CO ₂).	
Fire Fighting Media and Instructions	Flammable solid. SMALL FIRE: Use DRY chemicals, CO ₁ , water spray or foam. LARGE FIRE: Use water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.	
Fire Hazards	Yleids fiammable vapors on heating above melting point.	
Explosion Hazards	Vapour forms explosive mixture with air. Material in powder form, capable of creating a dust explosion.	
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Section 6. Accider	ntal Release Measures	
Small Spill and Leak	Use appropriate tools to put the spilled material in a convenient waste disposal c	container.
Large Spill and Leak	Flammable product. Use water spray curtain to divert vapor drift. Eliminate all sources of ignition. Us waste disposal. Dispose of in accordance with regional regulations.	se appropriate equipment to put the spilled material in a

Section 7, Ha	ndling and Storage
Handling	Keep away from heat, sparks and flame. To avoid fire, minimize ignition sources. DO NOT ingest. Avoid breathing dust. After handling, always wash hands thoroughly with scap and water.
Storage Keep container in a cool, well-ventilated erea. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or fiame). Do not store above 38 °C (100.4°F).	

Section 8. Exposure Controls, Personal Protection		
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure ilmit. *	
Personal Protection		
Eyes	Safety glasses.	
Body	No special protective clothing is required.	
Respiratory	Wear appropriate respirator when ventilation is inadequate.	
Hands	Gloves (impervious).	

Section 9. Physical a	and Chemical Properties		
Physical State and Appearance	Crystalline solid. (Flakes, chips and bails.)	Odor	Characteristic.
Molecular Weight	128.19 g/mole	Taste `	Not available.
pH (1% Soln/Water)	Not applicable.	Color	White,
Boiling/Condensation Point	218°C (424.4°F)	Volatility.	Not available.
Melting/Freezing Point	80.2°C (176.4°F)	Evaporation Rate	<1 compared to Bulyl acetate.
Specific Gravity	1.162 (Water = 1)	Odor Threshold	>0.3 ppm
Vapor Pressure	Not applicable.	Viscosity	Not available.
Vapor Density	4.42 (Alr = 1)	Solubility	Insoluble in water.
VOC Content	Not available.	Other Properties	Not available.
The Product is:	Combustible.		
Autoignition Temperature	526°C (978.8°F)		
Flash Points	CLOSED CUP: 79°C (174.2°F).		
Flammable Limits	LOWER: 0.9% UPPER: 5.9%		
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames and sparks. Material in powder form, capable of creating a dust explosion.		

Section 10. Stability and Reactivity				
	The product is stable.			
Conditions of Instability	No additional remark.			
Incompatibility with Various Substances	Reactive with oxidizing agents, acids.			

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Section 11. Toxicolog	ical information	D.E.W	
	Inhalation. Ingestion,		<u> </u>
Toxicity to Animals	Acute oral toxicity (LD50): >633 mg/kg [Mouse].		
Acute Effects on Humans			
Eyes	Contact may cause eye irritation.		
. Skin	Prolonged contact can cause skin irritation.		
Inhalation	Inhalation is minimal since vapours are unlikely due to physical properties. Practically non-toxic by in irritation to nose and throat.	halation, ini	nalation may cause
Ingestion	Hazardous in case of Ingestion.		
Chronic Effects on Humans	Slightly hazardous in case of skin contact (Irritant), of eye contact (Irritant). CARCINOGENIC EFFECTS: Classified None by NIOSH. A4 (Not classifiable for human or animal Naphthalene as a carcinogen to rats. MUTAGENIC EFFECTS: Non-mutagenic for bacteria and/or yeast. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be loxic to blood, kidneys, liver, eyes, hemolytic anemia, skin irritation. Repeated or prolonged exposure to the substance can produce target organs damage.	al.) by ACG	IH, NTP has classified

Section 12. Ecological Information

Section 13. Disposal Considerations

Not available.

Ecotoxicity

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Waste Information	Waste must be disposed of in accordance with federal, state and local environme	ental control regulations.		
Section 14. Transport Information				
TDG Classification (Canada)	CLASS 4.1: Flammable solid. Class 9.2: Environmentally hazardous material.			
PIN (Canada)	Shipping name: Naphthalene, crude or Naphthalene, refined UNNA: UN 1334 PG: III			
Special Provisions for Transport (Canada)	In inner packages of 500 g capacity or less this product is classified as a "Consumer Commodity" under TDG regulations.	*		
IMDG Classification	4.1			
PIN	Shipping name: Naphihalana, refined UNNA: UN 1334 PG: III	MARINE POLLUTANT		
Marine Pollutant	IMDG Class: Marine Pollutant. (Pollutant.)			
DOT Classification (U.S.A)	CLASS 4.1: Flammable solid.			
PIN	Naphthalene, crude or Naphthalene, refined, 4.1, UN 1334, III, Pollutant., RQ (Naphthalene)			
Special Provisions for Transport (U.S.)	In inner containers of 100 lbs (45.36 kg) capacity or less this product is exempt from DOT regulations (non regulated).	*		

HCS Classification (U.S.A.) CLASS; Flammable solld. Class: Target organ effects. USA Regulatory Lists TSCA inventory: Naphthalene		
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Section 16. Other Information

Validated and verified by Product Development and Technical Coordinator on 5/18/2001.

Printed 5/18/2001.

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any meterial is the sole responsibility of the user. All meterials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.