

1-NAPHTHOL

1. Chemical Product And Company Identification

Company's Name: REAGENTS, INC.

Company's P. O. Box: 240746

Company's City: CHARLOTTE

Company's State: NC

Company's Country: US

Company's Zip Code: 28224

Company's Info Ph #: 704/554-7474, 800/732-8484

Emergencies, call CHEMTREC: 800-424-9300

Date MSDS Prepared: March 11, 2009(updated)

Synonyms: 1-Hydroxynaphthalene; Fourrine 99; alpha-naphthol; 1-naphthalenol

CAS No.: 90-15-3

Molecular Weight: 144.17

Chemical Formula: C₁₀H₇OH

Product Codes: 2-25250

2. Composition/Information on Ingredients

<i>Ingredient</i>	<i>CAS No</i>	<i>Percent</i>	<i>Hazardous</i>
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alpha-Naphthol	90-15-3	100%	Yes

3. Hazards Identification

Emergency Overview

DANGER! MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES SEVERE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. AFFECTS THE LIVER AND KIDNEYS.

Health Rating: 2- Moderate

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 3 - Severe

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation: Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. Inhalation may result in symptoms and problems similar to ingestion. Experimental animal studies with this compound suggest inhalation exposure may be fatal.

Ingestion: Large doses may cause crampy abdominal pain, nausea, vomiting, sweating, intense thirst, cyanosis, hyperactivity, stupor, liver damage, blood pressure fall, nephritis, diarrhea, circulatory collapse, anemia, convulsions, and death. Estimated lethal dose 5 grams.

Skin Contact: May cause severe irritation, redness, and pain. May be absorbed through the skin with symptoms paralleling ingestion and causing kidney damage. Local action may cause peeling of the skin which may be followed by persistent pigmentation.

Eye Contact: Causes irritation, redness, pain, and injury to the cornea and lens of the eyes.

Chronic Exposure: Prolonged or repeated skin exposure may cause dermatitis and symptoms similar to acute exposure. Repeated ingestion may also cause symptoms similar to acute exposure.

Aggravation of Pre-existing Conditions: No information found.

4. First Aid Measures

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention for any breathing difficulty.

Ingestion: Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact: Immediately wash skin with soap and plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if symptoms occur.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention for any irritation.

5. Fire Fighting Measures

Fire: As with most organic solids, fire is possible at elevated temperatures or by contact with an ignition source.

Explosion: Not considered to be an explosion hazard.

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire. Water spray may be used to keep fire-exposed containers cool.

Special Information: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full-facepiece operated in the pressure demand or other positive pressure mode.

6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities.

7. Handling and Storage

Keep in a tightly closed light-resistant container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances, including oxidizers. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits: None established.

Ventilation System: A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved): For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection: Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection: Use chemical safety goggles and/or full-faceshield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance: White, gray or tan crystalline powder.

Odor: Phenolic odor.

Solubility: Very slightly soluble in water.

Density: 1.10

pH: No information found.

% Volatiles by volume @ 21C (70F): 0

Boiling Point: 278 - 280C (532 - 536F)

Melting Point: 95 - 96C (203 - 205F)

Vapor Density (Air=1): 4.5

Vapor Pressure (mm Hg): 1 @ 94C (201F)

Evaporation Rate (BuAc=1): No information found.

10. Stability and Reactivity

Stability: Stable under ordinary conditions of use and storage. Discolors on exposure to light.

Hazardous Decomposition Products: When heated to decomposition, emits acrid smoke and fumes.

Hazardous Polymerization: Will not occur.

Incompatibilities: Strong oxidizers, sulfuric acid, nitric acid, halogens, aluminum, copper, copper alloys, copper salts.

Conditions to Avoid: Heat, flame, ignition sources, light and incompatibles.

11. Toxicological Information

Oral rat LD50: 1870 mg/kg. Inhalation rat LC50: > 420 mg/m³/1H. Irritation rabbit (std Draize): skin = 500 mg/24H, severe; eye = 1 mg, severe. Investigated as a mutagen, reproductive effector.

-----\Cancer Lists\-----			
Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
alpha-Naphthol (90-15-3)	No	No	None

12. Ecological Information

Environmental Fate: No information found.

Environmental Toxicity: The LC50/96-hour values for fish are between 1 and 10 mg/l.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
alpha-Naphthol (90-15-3)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	--Canada--		Phil.
		DSL	NDSL	
alpha-Naphthol (90-15-3)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
alpha-Naphthol (90-15-3)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8(d)
alpha-Naphthol (90-15-3)	No	No	No

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No
SARA 311/312: Acute: Yes Chronic: Yes Fire: No Pressure: No
Reactivity: No (Pure / Solid)

Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

16. Other Information

NFPA Ratings: Health: 3 Flammability: 1 Reactivity: 1

Label Hazard Warning:

DANGER! MAY BE FATAL IF INHALED. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. CAUSES SEVERE IRRITATION TO EYES, SKIN AND RESPIRATORY TRACT. AFFECTS THE LIVER AND KIDNEYS.

Label Precautions:

Avoid contact with eyes, skin and clothing.

Avoid breathing dust.

Keep container closed.

Use with adequate ventilation.

Wash thoroughly after handling.

Label First Aid: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. In all cases, get medical attention.

Product Use: Laboratory Reagent.

Disclaimer:

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