

1-naphthol 90-15-3 MSDS

Section 1 - Chemical Product MSDS Name:1-Naphthol Material Safety Data Sheet
Synonym:1-Naphthalenol; alpha-Naphthol; 1-Hydroxynaphthalene; alpha-Hydroxynaphthalene

Section 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS#	Chemical Name	content	EINECS#
90-15-3	1-Naphthol	100.0	201-969-4

Hazard Symbols: XN

Risk Phrases: 21/22 37/38 41

Section 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Harmful in contact with skin and if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.Light sensitive.Air sensitive.

Potential Health Effects

Eye:

May cause eye injury.

Skin:

May cause severe skin irritation. Harmful if absorbed through the skin.

Ingestion:

Harmful if swallowed. Causes gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation:

Harmful if inhaled. May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.

Chronic:

May cause liver and kidney damage. May cause anemia and other blood cell abnormalities. Chronic inhalation, skin absorption or ingestion of naphthalene have caused severe hemolytic anemia.

Section 4 - FIRST AID MEASURES

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid immediately.

Skin:

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Get medical aid immediately. Wash clothing before reuse.

Ingestion:

If swallowed, do NOT induce vomiting. Get medical aid immediately.

If victim is fully conscious, give a cupful of water. Never give anything by mouth to an unconscious

person.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

Section 5 - FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material in sufficient quantity and reduced particle size is capable of creating a dust explosion.

Extinguishing Media:

Use dry chemical, carbon dioxide, or appropriate foam.

Section 6 - ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Provide ventilation.

Section 7 - HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Do not breathe dust.

Storage:

Keep container closed when not in use. Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Storage under a nitrogen blanket has been recommended.

Section 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Personal Protective Equipment Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: white to pink

Odor: slight phenolic odor

pH: Not available.

Vapor Pressure: 1 mm Hg @ 94 deg C

Viscosity: Not available.

Boiling Point: 278 - 280 deg C @ 760mm Hg

Freezing/Melting Point: 95 - 96 deg C

Autoignition Temperature: 541 deg C (1,005.80 deg F)

Flash Point: 125 deg C (257.00 deg F)

Explosion Limits, lower: .80 vol %

Explosion Limits, upper: 5.00 vol %

Decomposition Temperature:

Solubility in water: practically insoluble in water

Specific Gravity/Density:

Molecular Formula: C₁₀H₈O

Molecular Weight: 144.17

Section 10 - STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures. Substance undergoes color change upon exposure to light and air.

Conditions to Avoid:

Light, dust generation, exposure to air.

Incompatibilities with Other Materials:

Strong oxidizing agents, strong bases, acid chlorides, acid anhydrides, halogens.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, acrid smoke and fumes.

Hazardous Polymerization: Will not occur.

Section 11 - TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 90-15-3: QL2800000 LD50/LC50:

CAS# 90-15-3: Draize test, rabbit, eye: 1 mg Severe; Draize test, rabbit, skin: 500 mg/24H Severe;

Inhalation, rat: LC50 = >420 mg/m³/1H; Oral, mouse: LD50 = 275 mg/kg; Oral, rabbit: LD50 = 9 gm/kg; Oral, rat: LD50 = 1870 mg/kg; Skin, rabbit: LD50 = 880 mg/kg.

Carcinogenicity:

1-Naphthol - Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Other:

See actual entry in RTECS for complete information.

Section 12 - ECOLOGICAL INFORMATION

Section 13 - DISPOSAL CONSIDERATIONS

Products which are considered hazardous for supply are classified as Special Waste and the disposal of such chemicals is covered by regulations which may vary according to location. Contact a specialist disposal company or the local waste regulator for advice. Empty containers must be decontaminated before returning for recycling.

Section 14 - TRANSPORT INFORMATION

IATA

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

IMO

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: III

RID/ADR

Shipping Name: TOXIC SOLID, ORGANIC, N.O.S.

Dangerous Goods Code: 6.1

UN Number: 2811

Section 15 - REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XN

Risk Phrases:

R 21/22 Harmful in contact with skin and if swallowed.

R 37/38 Irritating to respiratory system and skin.

R 41 Risk of serious damage to eyes.

Safety Phrases:

S 22 Do not breathe dust.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 90-15-3: 1

United Kingdom Occupational Exposure Limits

Canada

CAS# 90-15-3 is listed on Canada's DSL List.

CAS# 90-15-3 is listed on Canada's Ingredient Disclosure List.

Exposure Limits

CAS# 90-15-3: OEL-RUSSIA:STEL 0.5 mg/m³

US FEDERAL

TSCA

CAS# 90-15-3 is listed on the TSCA inventory.

SECTION 16 - ADDITIONAL INFORMATION

N/A
