2-Naphthol
MSDS# 88605

Section 1 - Chemical Product and Company Identification

MSDS Name: 2-Naphthol
Catalog Numbers: N/0400/53
Synonyms: 2-Hydroxynaphthalene; beta-Hydroxynaphthalene; Isonaphthol; beta-Monoxynaphthalene; 2-Naphthalenol; Naphthaol B; beta-Naphthol; beta-Naphthyl alcohol; beta-Naphthyl hydroxide

Company Identification:Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG
For information in Europe, call:(01509) 231166
Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

----------------------------------------
CAS#: 135-19-3
Chemical Name: 2-naphthol
%: 98%
EINECS#: 205-182-7
----------------------------------------

Hazard Symbols: XN N
Risk Phrases: 20/22 50

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful by inhalation and if swallowed. Very toxic to aquatic organisms.
Potential Health Effects
Eye: Causes eye irritation.
Skin: Causes skin irritation.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.
Inhalation: May cause respiratory tract irritation.
Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.
Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.
Ingestion:
If victim is conscious and alert, give 2-4 cupfuls of milk or water.
Get medical aid immediately.

Inhalation:
Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

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.

Extinguishing Media:
Use carbon dioxide or dry chemical.

Section 6 - Accidental Release Measures

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

Spills/Leaks:
Wash area with soap and water. Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling:
Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage:
Do not store in direct sunlight. Keep container closed when not in use. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from strong bases. Material darkens in color on storage.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits
CAS# 135-19-3:
Russia: 0.1 mg/m3 TWA

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 gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if
irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid
Color: white to yellow white
Odor: Slight phenolic odor
pH: Not available
Vapor Pressure: 10 mm Hg @ 145.5C
Viscosity: Not available
Boiling Point: 285-286C
Freezing/Melting Point: 121-123C
Autoignition Temperature: Not available
Flash Point: 307 deg F (152.78 deg C)
Explosion Limits: Lower: Not available
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Slightly soluble in water.
Specific Gravity/Density: 1.22
Molecular Formula: C10H8O
Molecular Weight: 144.0554

Section 10 - Stability and Reactivity

Chemical Stability:
Stable under normal temperatures and pressures.

Conditions to Avoid:
Incompatible materials, ignition sources, excess heat.

Incompatibilities with Other Materials
Not available

Hazardous Decomposition Products
Carbon monoxide, carbon dioxide, sodium oxide.

Hazardous Polymerization
Has not been reported.

Section 11 - Toxicological Information

RTECS#:
CAS# 135-19-3: QL2975000
LD50/LC50:
CAS# 135-19-3: Draize test, rabbit, eye: 100 mg
Moderate; Draize test, rabbit, skin: 500 mg/24H Mild;
Inhalation, rat: LC50 = >770 mg/m3/1H; Oral, mouse: LD50 = 98
mg/kg; Oral, rabbit: LD50 = 5400 mg/kg; Oral, rat: LD50 =
1960 mg/kg; Oral, rat: LD50 = 1980 mg/kg; Skin, rabbit: LD50
= >10 gm/kg;.
Carcinogenicity:
2-naphthol -
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Products 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 authority or
advice. Empty containers must be decontaminated before returning for
recycling.

Section 14 - Transport Information

IATA
Shipping Name: TOXIC SOLID, ORGANIC, NOS
Hazard Class: 6.1
UN Number: 2811
Packing Group: III

IMO
Shipping Name: TOXIC SOLID, ORGANIC, NOS
Hazard Class: 6.1
UN Number: 2811
Packing Group: III

RID/ADR
Shipping Name: TOXIC SOLID, ORGANIC, NOS
Hazard Class: 6.1
UN Number: 2811
Packing Group: III

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN N
Risk Phrases:
R 20/22 Harmful by inhalation and if swallowed.
R 50 Very toxic to aquatic organisms.

Safety Phrases:
S 24/25 Avoid contact with skin and eyes.
S 61 Avoid release to the environment. Refer to special instructions/safety data sheets.

WGK (Water Danger/Protection)
CAS# 135-19-3: 2
Canada
CAS# 135-19-3 is listed on Canada's DSL List
US Federal
TSCA
CAS# 135-19-3 is listed on the TSCA Inventory.

Section 16 - Other Information

MSDS Creation Date:
12/12/1997
Revision #3 Date
10/03/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.