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1-Naphthol
89143

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: 1-Naphthol

Catalog Numbers:

12819-1000, 12819-5000, 41530-0010, 41530-2500, 12 819 15, 41 530 14,

1026384, 1026400, 1026442, 1026467, EK 102 6442, EK 102 6467

Synonyms:

1-Naphthalenol, alpha-Naphthol, 1-Hydroxynaphthalene

Company Identification: Acros Organics

Janssen Pharmaceuticaaan 3a

2440 Geel, Belgium

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies outside the US, call: 0032(0) 14575299

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

CAS#	Chemical Name	%	Einers#
90-15-3	Alpha-naphthol	ca 100	unlisted

Hazard Symbols: XN

Risk Phrases: 21 36/37/38

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: Pinkish to white or colorless, fine powder.

Target Organs: Kidneys, liver.

Potential Health Effects

Eye:

Contact with eyes may cause severe irritation, and possible eye burns.

Skin:

Harmful if absorbed through the skin.
May cause severe skin irritation with possible burns, especially if skin is wet or moist.

Ingestion:

May cause burns to the digestive tract.
Overexposure may result in hemolytic anemia, leading to kidney failure. Symptoms include diarrhea, headache, perspiration, listlessness and confusion.

Inhalation:

May cause severe irritation of the upper respiratory tract with pain, burns, and inflammation.
May cause effects similar to those described for ingestion

Chronic:

May cause liver and kidney damage.

**** SECTION 4 - FIRST AID MEASURES ****

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lids.
Get medical aid immediately.

Skin:

Get medical aid immediately.
Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.
SPEEDY ACTION IS CRITICAL!

Ingestion:

Do NOT induce vomiting.
If victim is conscious and alert, give 2-4 cupfuls of milk or water.
Never give anything by mouth to an unconscious person.
Get medical aid immediately.

Inhalation:

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

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.

Extinguishing Media:

In case of fire, use water, dry chemical, chemical foam, or alcohol-resistant foam.

Autoignition Temperature: Not applicable.

Flash Point: 153 C (307.40 F)

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Explosion Limits, Lower: 0.8
Upper: 5.0

**** SECTION 6 - ACCIDENTAL RELEASE MEASURES ****

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

Spills/Leak:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable clean, dry container for disposal.

**** SECTION 7 - HANDLING and STORAGE ****

Handling:

Wash thoroughly after handling.
Remove contaminated clothing and wash before reuse.
Use with adequate ventilation.
Do not get on skin or in eyes.
Do not ingest or inhale.

Storage:

Store in a cool, dry place.
Keep container closed when not in use.

**** SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION ****

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Alpha-naphthol	none listed	none listed	none listed

OSHA Vacated PELs:

Alpha-naphthol:

No OSHA Vacated PELs are listed for this chemical.

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.

Skin:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Solid
Appearance: Pinkish to white or colorless, fine powder.
Odor: Odor of phenol
pH: Not available.
Vapor Pressure: 1 mm Hg @ 94 C
Vapor Density: 4.5
Evaporation Rate: Negligible.
Viscosity: Not available.
Boiling Point: 278-280 C
Freezing/Melting Point: 95-96 C
Decomposition Temperature: Not available.
Solubility: Very slightly soluble in water.
Specific Gravity/Density: 1.224
Molecular Formula: C10H7OH
Molecular Weight: 144.0554

**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials.

Incompatibilities with Other Materials:

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

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

**** SECTION 11 - TOXICOLOGICAL INFORMATION ****

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RTECS#:

CAS# 90-15-3: QL2800000

LD50/LC50:

CAS# 90-15-3: 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:

Alpha-naphthol -
Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Reproductive Effects:

Fetotoxic effects have been observed in experiment where 1-Naphthol was administered to mice. TDLo-90 mg/kg.

Mutagenicity:

Mutation has been observed in cases where 1-naphthol was administered to microorganisms and Escherichia coli and Bacillus subtilis bacteria.

**** SECTION 12 - ECOLOGICAL INFORMATION ****

Ecotoxicity:

Not available.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations.

RCRA D-Series: Maximum Concentration of Contaminants: Not listed.

RCRA D-Series: Chronic Toxicity Reference Levels: Not listed.

RCRA F-Series: Not listed.

RCRA P-Series: Not listed.

RCRA U-Series: Not listed.

Not listed as a material banned from land disposal according to RCRA.

**** SECTION 14 - TRANSPORT INFORMATION ****

US DOT

Shipping Name: CORROSIVE SOLIDS, N.O.S.
(1-NAPHTHOL)

Hazard Class: 8

UN Number: UN1759

Packing Group: II

IMO

Shipping Name: POISONOUS SOLIDS, N.O.S.

Hazard Class: 6.1

UN Number: 2811

Packing Group: 3

IATA

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

Hazard Class: 6.1

UN Number: 2811

Packing Group: 3

RID/ADR

Shipping Name: POISONOUS SOLID, N.O.S.*

Dangerous Goods Code: 6.1(14C)

UN Number: 2811

Canadian TDG

Shipping Name: CORROSIVE SOLID NOS (1-NAPHTHOL)

Hazard Class: 8(9.2)

UN Number: UN1759

**** SECTION 15 - REGULATORY INFORMATION ****

A. Federal

TSCA

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

Health & Safety Reporting List

CAS# 90-15-3: Effective Date: September 30, 1991

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule

Section 12b

None of the chemicals are listed under TSCA Section 12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA

CERCLA/SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants

This material does not contain any Class 1 Ozone depleters

This material does not contain any Class 2 Ozone depleters

Clean Water Act:

None of the chemicals in this product are listed as Hazardous

Substances under the CWA.

None of the chemicals in this product are listed as Priority

Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants

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under the CWA

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

B. State

Not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed.

C. International

Canada

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

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

European Labeling in Accordance with EC Directives

Hazard Symbol: XN

Risk Phrases:

R 21 Harmful in contact with skin.

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

Exposure Limits:

OEL: RUSSIA STEL 0.5 mg/m3

**** SECTION 16 - ADDITIONAL INFORMATION ****

Additional Information:

No additional information available.

MSDS Creation Date: May 24, 1995

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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.