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SECTION 1 – IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 PRODUCT IDENTIFIER

TRADE NAME: 1-Naphthol

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST

USAGE: Laboratory chemicals, Manufacture of substances

1.3 DETAILS OF THE SUPPLIER OF SAFETY DATA SHEET

MANUFACTURER: NATION FORD CHEMICAL COMPANY
2300 Banks Street
Fort Mill, South Carolina 29715
United States of America

EMAIL: INFO@NATIONFORDCHEM.COM

PRODUCT INFO TELEPHONE: +1-803-548-3210

1.4 EMERGENCY TELEPHONE NUMBER

CHEMTREC: +1-800-424-9300

SECTION 2 - HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF A SUBSTANCE OR MIXTURE



GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 4), H302
Acute toxicity, Dermal (Category 3), H311
Skin irritation (Category 2), H315
Serious eye damage (Category 1), H318
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335
Acute aquatic toxicity (Category 2), H401
Chronic aquatic toxicity (Category 2), H411

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 LABEL ELEMENTS

Labelling in accordance to Regulation (EC) No 1272/2008 and 29CFR 1910 (OSHA).

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HAZARD PICTOGRAMS



SIGNAL WORD: Danger

HAZARD STATEMENTS:

- H302 Harmful if swallowed.
- H311 Toxic in contact with skin.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H335 May cause respiratory irritation.
- H411 Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS:

- P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear eye protection/ face protection.
- P280 Wear protective gloves/ protective clothing.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
- P302 + P352 + P312 IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
- P332 + P313 If skin irritation occurs: Get medical advice/ attention.
- P362 Take off contaminated clothing and wash before reuse.
- P391 Collect spillage.
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P405 Store locked up.
- P501 Dispose of contents/ container to an approved waste disposal plant.



Other hazards

RESULTS OF PBT AND vPvB ASSESSMENT:

- PBT Not applicable
- vPvB Not applicable

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SUBSTANCES

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SUBSTANCE NAME:	1-Naphthol
CAS NUMBER:	90-15-3
PURITY:	99+%
SYNONYMS:	1-Hydroxynaphthalene A-Naphthol

SECTION 4 - FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL INFORMATION	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
INHALATION	If large amounts are inhaled, remove to fresh air. If breathing has stopped, give artificial respiration. If breathing is difficult, administer oxygen and call a physician.
SKIN CONTACT	Immediately wash skin with soap and copious amounts of water while removing contaminated clothing. Wash contaminated clothing before reuse. Take victim immediately to hospital. Consult a physician.
EYE CONTACT	Immediately flush eyes with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating eyelids with fingers. Seek medical attention.
INGESTION	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in Section 11



4.3 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NOTE TO PHYSICIAN	Symptomatic treatment and if possible contact poison specialist.
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No further relevant information available.

SECTION 5 – FIRE-FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA

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SUITABLE EXTINGUISHING MEDIA Carbon Dioxide (CO₂)
Powder
Water Spray
Fight larger fires with water spray or alcohol resistant foam

5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

Carbon oxides

5.3 ADVICE FOR FIRE FIGHTERS

If excessive smoke or fumes are encountered, wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Dispose of fire debris and contaminated fire-fighting water in accordance with official regulations. Collect contaminated fire-fighting water separately. It must not enter the sewage system.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

6.2 ENVIRONMENTAL PRECAUTIONS

Do not allow to enter drains, sewers or watercourses. Discharge into the environment must be avoided.

6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Protect against dust. Clear up spillages, transfer to a container for disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal

6.4 REFERENCE TO OTHER SECTIONS



See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7 – HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

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Keep container tightly closed in a dry and well-ventilated place
Light sensitive. Store under inert gas. Air sensitive. Air and light sensitive.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

7.3 SPECIFIC END USE(S)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROL PARAMETERS

Does not contain substances with occupational exposure limits.

8.2 EXPOSURE CONTROLS:

PERSONAL PROTECTIVE
EQUIPMENT GENERAL
PROTECTIVE AND HYGIENIC
MEASURES:

Avoid contact with skin, eyes and clothing. Wash hands immediately after handling the product.

VENTILATION:

A general exhaust system is recommended.

RESPIRATORY PROTECTION

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

HAND PROTECTION



Protective gloves according to proper IH procedures.

EYE/FACE PROTECTION

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

SKIN AND BODY PROTECTION

Complete suit protecting against chemicals. PPE selection must be based on the conditions at the specific workplace.



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ENVIRONMENTAL EXPOSURE

Contain leakage or spillage if safe to do so. Prevent product from entering drains. Discharge into the environment must be avoided.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Color	White to light gray powder
Form	Solid
Odour	No information available
Odour threshold	No information available
pH	No information available
Melting / Freezing Point	Melting point/range: 94 - 96 °C (201 - 205 °F) - lit.
Boiling point	278 - 280 °C (532 - 536 °F) - lit.
Flash Point	125 °C (257 °F) - closed cup
Evaporation Rate	No information available
Flammability (solid, gaseous)	No information available
Upper Explosion Limit	5 %(V)
Lower Explosion Limit	0.8%(V)
Vapour Pressure	2.3 hPa (1.7 mmHg) at 100 °C (212 °F)
Density	No information available
Solubility in / Miscibility with Water (20°C)	No information available
Segregation coefficient (n-octanol/ water) at 25°C	-log Pow: 2.85
Ignition Temperature	
Decomposition Temperature	No information available
Self-igniting	No information available
Danger of Explosion	No information available.
Dynamic Viscosity	No data available

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Kinematic Viscosity

No data available

SECTION 10 - STABILITY AND REACTIVITY

10.1 REACTIVITY

No data available.

10.2 CHEMICAL STABILITY

Stable at normal storage and handling conditions

10.3 POSSIBILITY OF HAZARDOUS REACTIONS

No data available.

10.4 CONDITIONS TO AVOID

No data available.

10.5 INCOMPATIBLE MATERIALS

Strong oxidizing agents, Strong bases

10.6 HAZARDOUS DECOMPOSITION PRODUCTS

Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Inhalation

No data available

Ingestion

Unlikely to be hazardous if swallowed.

Eye Contact

Irritating to eyes.

Skin Contact



Irritating to skin.

Long-Term Exposure

Harmful; danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.

Acute Oral Toxicity



Rat - 1,870 mg/kg

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Acute Dermal Toxicity	Rabbit - 880 mg/kg
Acute Inhalation Toxicity	No study performed as exposure is highly unlikely due to low vapor pressure.
Skin Irritation/Corrosion	Skin - Rabbit Result: Severe skin irritation - 24 h
Eye Irritation/Corrosion	Eyes - Rabbit Result: Severe eye irritation
Skin Sensitization	No data available
Germ Cell Metagenicity <i>in vitro</i>:	No data available
<i>in vivo</i>: Carcinogenicity	<p>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.</p> <p>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.</p> <p>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.</p>
Reproductive toxicity oral	Reproductive toxicity - Mouse - Subcutaneous Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth). Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
STOT: Single Exposure	Inhalation - May cause respiratory irritation.
STOT: Repeated Exposure	No data available

SECTION 12 - ECOLOGICAL INFORMATION

12.1 TOXICITY

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Toxicity to Fish

LC50 - Pimephales promelas (fathead minnow) –
4.1 - 4.7 mg/l - 96 h

12.2 PERSISTANCE AND DEGREDABILITY

No data available

12.3 BIOACCUMULATIVE POTENTIAL

No data available

12.4 MOBILITY IN SOIL

No further relative information available

Other Information

Elimination:	COD Removal, adapted activated OECD test
Sludge Assessment:	Readily biodegradable, according to appropriate OECD test.
Water Solubility Results:	The substance is soluble in water.

12.5 RESULTS OF PBT AND VPVB ASSESSMENT

PBT	Not applicable
vPvB	Not applicable

12.6 OTHER ADVERSE EFFECTS

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life with long lasting effects.

SECTION 13 - DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS



Dispose of according to local, state, and national guidelines.

SECTION 14 - TRANSPORT INFORMATION

DOT (US)

For solid product:

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solids, organic, n.o.s. (1-Naphthol)

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Reportable Quantity (RQ): NA
Poison Inhalation Hazard: No

For molten product:

UN number: 2810 Class: 6.1 Packing group: III
Proper shipping name: Toxic liquids, organic, n.o.s. (1-Naphthol)
Reportable Quantity (RQ): NA
Poison Inhalation Hazard: No
Hot molten product shipped over 212°F/100°C, requires "HOT" placard

IMDG

UN number: 2811 Class: 6.1 Packing group: III EMS-No: F-A, S-A Proper shipping name:
Marine pollutant:yes

IATA

UN number: 2811 Class: 6.1 Packing group: III
Proper shipping name: Toxic solid, organic, n.o.s. (1-Naphthol)

SECTION 15 – REGULATORY INFORMATION

CERCLA This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by CERCLA Title 40, Part 302.4.

SARA 313 This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA This substance is listed in the TSCA database.

California Proposition 65 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION 16 - OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Date of Last Revision September 4, 2019

HMIS Rating

Health hazard: 3
Flammability: 1
Physical Hazard 0

NFPA Rating

Health hazard: 3
Fire Hazard: 1
Reactivity Hazard: 0