

## SAFETY DATA SHEET

Preparation Date: 06/04/2015

Revision date 2/11/2019

Revision Number: G2

### 1. IDENTIFICATION

#### Product identifier

**Product code:** N1009  
**Product Name:** 1-NAPHTHOL, REAGENT

#### Other means of identification

**Synonyms:** No information available  
**CAS #:** 90-15-3  
**RTECS #** QL2800000  
**CI#:** Not available

#### Recommended use of the chemical and restrictions on use

**Recommended use:** No information available.  
**Uses advised against** No information available

**Supplier:** Spectrum Chemical Mfg. Corp  
 14422 South San Pedro St.  
 Gardena, CA 90248  
 (310) 516-8000

**Order Online At:** <https://www.spectrumchemical.com>  
**Emergency telephone number** Chemtrec 1-800-424-9300  
**Contact Person:** Tom Tyner (USA - West Coast)  
**Contact Person:** Ibad Tirmiz (USA - East Coast)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

|  |            |
|--|------------|
| Acute toxicity - Oral                            | Category 4 |
| Acute toxicity - Dermal                          | Category 3 |
| Skin corrosion/irritation                        | Category 2 |
| Serious eye damage/eye irritation                | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |

#### Label elements

##### **Danger**

##### **Hazard statements**

Harmful if swallowed  
 Toxic in contact with skin  
 Causes skin irritation  
 Causes serious eye damage

May cause respiratory irritation



**Hazards not otherwise classified (HNOC)**

Not Applicable

**Other hazards**

May be harmful if inhaled

**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

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.  
IF ON SKIN: Wash with plenty of water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash it before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed  
Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Component  | CAS No  | Weight-% |
|------------|---------|----------|
| 1-Naphthol | 90-15-3 | 100      |

**4. FIRST AID MEASURES**

**First aid measures**

**General Advice:**

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call

**Product code:** N1009

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REAGENT

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1-800-222-1222.

- Skin Contact:** Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Continue flushing with plenty of water for at least 15 minutes. Immediate medical attention is required. Call a physician or Poison Control Centre immediately. Toxic in contact with skin.
- Eye Contact:** Flush eyes with water for 15 minutes. Immediate medical attention is required. Call a physician immediately.
- Inhalation:** Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Immediate medical attention is required.
- Ingestion:** Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.

**Most important symptoms and effects, both acute and delayed**

- Symptoms**
- Eye contact may result in redness or pain
  - Causes skin irritation
  - Skin contact may result in redness, pain, inflammation, itching, scaling
  - Severe eye irritation
  - Causes eye burns
  - Irritating to respiratory system

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician:** Treat symptomatically.

**Protection of first-aiders**

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste.

**5. FIRE-FIGHTING MEASURES**

**Extinguishing Media**

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray mist or foam.

**Unsuitable Extinguishing Media:** No information available.

**Specific hazards arising from the chemical**

**Hazardous combustion products** Carbon Monoxide, Carbon Dioxide.

**Specific hazards** May be combustible at high temperatures.

**Special Protective Actions for Firefighters**

**Specific Methods:** No information available

**Special Protective Equipment for Firefighters:** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions:** Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Prevent entry into waterways, sewers, basements or confined areas.

### Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.

**Methods for cleaning up** Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Technical Measures/Precautions:**

Provide sufficient air exchange and/or exhaust in work rooms. Keep away from incompatible materials.

**Safe Handling Advice**

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not ingest. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Technical Measures/Storage Conditions:**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials. Sensitive to light. Store in light-resistant containers.

**Incompatible Materials:**

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### National occupational exposure limits

##### United States

| Component  | CAS No  | OSHA | NIOSH | ACGIH | AIHA WEEL |
|------------|---------|------|-------|-------|-----------|
| 1-Naphthol | 90-15-3 | None | None  | None  | None      |

##### Canada

| Component  | CAS No  | Canada - Alberta | Canada - British Columbia | Canada - Ontario | Canada - Quebec |
|------------|---------|------------------|---------------------------|------------------|-----------------|
| 1-Naphthol | 90-15-3 | None             | None                      | None             | None            |

##### Australia and Mexico

| Component | CAS No | Australia | Mexico |
|-----------|--------|-----------|--------|
|-----------|--------|-----------|--------|

|            |         |      |      |
|------------|---------|------|------|
| 1-Naphthol | 90-15-3 | None | None |
|------------|---------|------|------|

### Appropriate engineering controls

**Engineering measures to reduce exposure:** Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

### Individual protection measures, such as personal protective equipment

#### Personal Protective Equipment

**Eye protection:** Goggles

**Skin and body protection:** Chemical resistant apron  
Gloves  
Long sleeved clothing

**Respiratory protection:** Effective dust mask. or. Wear respirator with dust filter. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds) , inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.

**Hygiene measures:** Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product When using, do not eat, drink or smoke.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|   |  |  |
|---|--|--|
| <b>Physical state:</b><br>Solid                               | <b>Appearance:</b><br>No information available.                      | <b>Color:</b><br>No information available.                           |
| <b>Odor:</b><br>No information available.                     | <b>Taste</b><br>No information available.                            | <b>Formula</b><br>C10H7OH  |
| <b>Molecular/Formula weight (g/mole):</b><br>144.17           | <b>Flammability (solid, gas)</b><br>no data available                | <b>Flashpoint (°C/°F):</b><br>161°C/321.8°F                          |
| <b>Flash Point Tested according to:</b><br>Closed cup         | <b>Autoignition Temperature (°C/°F):</b><br>No information available | <b>Lower Explosion Limit (%):</b><br>No information available        |
| <b>Upper Explosion Limit (%):</b><br>No information available | <b>Melting point/range(°C/°F):</b><br>96°C/204.8°F                   | <b>Decomposition temperature(°C/°F):</b><br>No information available |
| <b>Boiling point/range(°C/°F):</b><br>288°C/550.4°F           | <b>Bulk density:</b><br>No information available                     | <b>Density (g/cm3):</b><br>No information available                  |
| <b>Specific gravity:</b><br>1.0954                            | <b>pH</b><br>No information available                                | <b>Vapor pressure @ 20°C (kPa):</b><br>No information available      |
| <b>Evaporation rate:</b><br>No information available          | <b>Vapor density:</b><br>No information available                    | <b>VOC content (g/L):</b><br>No information available                |
| <b>Odor threshold (ppm):</b>                                  | <b>Partition coefficient</b>   |  |

No information available

**(n-octanol/water):**  
No information available

**Viscosity:**  
No information available

**Miscibility:**  
No information available

**Solubility:**  
Insoluble in cold water

## 10. STABILITY AND REACTIVITY

### Reactivity

No information available

### Chemical stability

**Stability:** Sensitive to light. Exposure to light accelerates decomposition.

**Possibility of Hazardous Reactions:** Hazardous polymerization does not occur

**Conditions to avoid:** Heat. Avoid dust formation. Exposure to light. Incompatible materials.

**Incompatible Materials:** No information available

**Hazardous decomposition products:** Carbon oxides.

### Other Information

**Corrosivity:** No information available

**Special Remarks on Corrosivity:** No information available

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Principal Routes of Exposure:**  
Eyes. Ingestion. Inhalation.

### Acute Toxicity

### Component Information

1-Naphthol

CAS No 90-15-3

**LD50/oral/rat** = 1870 mg/kg Oral LD50 Rat  
**LD50/oral/mouse** = 275 mg/kg Oral LD50 Mouse  
**LD50/dermal/rabbit** = 880 mg/kg Dermal LD50Rabbit  
**LD50/dermal/rat** = No information available  
**LC50/inhalation/rat** = 420 mg/m<sup>3</sup> Inhalation LC50 Rat 1 h  
**LC50/inhalation/mouse** = No information available  
**Other LD50 or LC50 information** = No information available

### Product Information

**LD50/oral/rat** =  
**Value - Acute Tox** = 1870 mg/kg

**LD50/oral/mouse =**  
**Value - Acute Tox Oral = 275 mg/kg**

**LD50/dermal/rabbit**  
**Value - Acute Tox = 880 mg/kg**

**LD50/dermal/rat**  
**VALUE - Acute Tox Dermal = No information available**

**LC50/inhalation/rat**  
**VALUE-Vapor = No information available**  
**VALUE-Gas = No information available**  
**VALUE-Dust/Mist = 420 mg/m<sup>3</sup> mg/l**

**LC50/Inhalation/mouse**  
**VALUE-Vapor = No information available**  
**VALUE - Gas = No information available**  
**VALUE - Dust/Mist = No information available**

**Symptoms**

**Skin Contact:** Toxic in contact with skin. Causes skin irritation.  
**Eye Contact:** Causes severe eye irritation and possible burns. Risk of serious damage to eyes.  
**Inhalation** Irritating to respiratory system.  
**Ingestion** Harmful if swallowed.  
**Aspiration hazard** No information available.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Chronic Toxicity** No information available.  
**Sensitization:** No information available.  
**Mutagenic Effects:** No information available

**Carcinogenic effects:** Not considered carcinogenic.

| Component  | CAS No  | IARC       | ACGIH - Carcinogens | NTP        | OSHA HCS - Carcinogens | Australia - Notifiable Carcinogenic Substances | Australia - Prohibited Carcinogenic Substances |
|------------|---------|------------|---------------------|------------|------------------------|--|--|
| 1-Naphthol | 90-15-3 | Not listed | Not listed          | Not listed | Not listed             | Not listed                                     | Not listed                                     |

*ACGIH (American Conference of Governmental Industrial Hygienists)*

*IARC (International Agency for Research on Cancer)*

*NTP (National Toxicology Program)*

*OSHA (Occupational Safety and Health Administration of the US Department of Labor)*

**Reproductive toxicity** No data is available

**Reproductive Effects:** No information available  
**Developmental Effects:** No information available

**Teratogenic Effects:** No information available

**Specific Target Organ Toxicity**

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Target Organs:** No information available.

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

**Ecotoxicity effects:** No data available.

*1-Naphthol - 90-15-3*

**Fish** 3.57 mg/L LC50 Pimephales promelas 96 h flow-through 1  
0.75 mg/L LC50 Lepomis macrochirus 96 h static 1

**Persistence and degradability:** No information available

**Bioaccumulative potential:** No information available.

**Mobility in soil** No information available

**Other adverse effects** No information available.

**13. DISPOSAL CONSIDERATIONS**

**Disposal Methods**

**Waste from residues / unused products:**

Waste must be disposed of in accordance with Federal, State and Local regulation.

**Contaminated packaging:**

Empty containers should be taken for local recycling, recovery or waste disposal

| Component  | CAS No  | RCRA - F Series Wastes | RCRA - K Series Wastes | RCRA - P Series Wastes | RCRA - U Series Wastes |
|------------|---------|------------------------|------------------------|------------------------|------------------------|
| 1-Naphthol | 90-15-3 | None                   | None                   | None                   | None                   |

**14. TRANSPORT INFORMATION**

**DOT**

**UN-No:** Not Regulated

**Proper Shipping Name:** Toxic solids, organic, n.o.s. (1-Naphthol)

**Hazard Class** 6.1

**Subsidiary Class** No information available

**Packing group:** No information available

**Emergency Response Guide Number** No information available

**Marine Pollutant** No data available

**DOT RQ (lbs):** No information available

**Special Provisions** No Information available

**Symbol(s):** [DOT]: (G) - Identifies proper shipping names for which one or more technical names of the hazardous material must be entered in parentheses, in association with the basic description.



**Description:** UN2811,Toxic solids, organic, n.o.s. ,6.1,PG III

**TDG (Canada)**

**UN-No:** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No Information available  
**Description:** UN2811,TOXIC SOLID, ORGANIC, N.O.S.,6.1,PG III

**ADR**

**UN Number** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Transport hazard class(es)** 6.1  
**Packing group** III  
**Subsidiary Risk:** No information available  
**Description:** UN2811 Toxic solid, organic, n.o.s.,6.1,III

**IMDG**

**UN-No:** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Hazard Class:** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Marine Pollutant** No information available  
**EMS:** F-A

**RID**

**UN Number** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Description:** UN2811 Toxic solid, organic, n.o.s.,6.1,III

**ICAO (air)**

**UN-No:** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Hazard Class** 6.1  
**Subsidiary Risk:** No information available  
**Packing Group:** III  
**Description:** UN2811,Toxic solid, organic, n.o.s.,6.1,PG III

**IATA**

**UN Number** UN2811  
**Proper Shipping Name:** Toxic solid, organic, n.o.s.  
**Transport hazard class(es)** 6.1  
**Subsidiary Risk:** No information available  
**Packing group** III  
**Precautionary Statements - Response** 6L  
**Special Provisions** No information available  
**Description:** UN2811,Toxic solid, organic, n.o.s.,6.1,PG III

**15. REGULATORY INFORMATION**

**International Inventories**

**Product code:** N1009

**Product name:** 1-NAPHTHOL,  
REAGENT

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| Component  | CAS No  | U.S. TSCA       | KOREA KECL       | Philippines (PICCS) | Japan ENCS               | China IECSC | Australia AICS | EINECS-No.        |
|------------|---------|-----------------|------------------|---------------------|--------------------------|-------------|----------------|-------------------|
| 1-Naphthol | 90-15-3 | Present(ACTIVE) | Present KE-25703 | Present             | Present (4)-354 (5)-5001 | Present     | Present        | Present 201-969-4 |

## U.S. Regulations

### California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

#### Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

#### Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

| Component  | CAS No  | Carcinogen | Developmental Toxicity | Male Reproductive Toxicity | Female Reproductive Toxicity: |
|------------|---------|------------|------------------------|----------------------------|-------------------------------|
| 1-Naphthol | 90-15-3 | Not Listed | Not Listed             | Not Listed                 | Not Listed                    |

## CERCLA/SARA

| Component  | CAS No  | CERCLA - Hazardous Substances and their Reportable Quantities | Section 302 Extremely Hazardous Substances and TPQs | Section 302 Extremely Hazardous Substances and RQs | Section 313 - Chemical Category | Section 313 - Reporting de minimis |
|------------|---------|---|---|--|---------------------------------|------------------------------------|
| 1-Naphthol | 90-15-3 | None  | None  | None   | None                            | None                               |

## U.S. TSCA

| Component  | CAS No  | TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS) | TSCA 8(d) -Health and Safety Reporting |
|------------|---------|---|--|
| 1-Naphthol | 90-15-3 | Not Applicable  | 09/30/199112/19/1995                   |

## Canada

### WHMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component  
1-Naphthol  
90-15-3 ( 100 )

WHMIS 2015 Hazard Classification  
Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.;  
Acute toxicity - Dermal - Category 4: H312 Harmful in contact with skin.;  
Skin corrosion/irritation - Category 2: H315 Causes skin irritation.;  
Serious Eye Damage/Eye Irritation - Category 1: H318 Causes serious eye damage.;  
Combustible Dust - Category 1: May form combustible dust concentrations in air (factors such as combustibility and explosiveness of dusts including composition and shape and size of particles could cause substance to belong to 'Combustible dust' hazard class)

**Canada Hazardous Products Regulation** This product has been classified according to the hazard criteria of the HPR (Hazardous Products Regulation) and the SDS contains all of the information required by the HPR

## DSL/NDSL

| Component  | CAS No  | Canada (DSL) | Canada (NDSL) |
|------------|---------|--------------|---------------|
| 1-Naphthol | 90-15-3 | Present      | Not Listed    |

| Component  | CAS No  | CEPA Schedule I - Toxic Substances                          |
|------------|---------|---|
| 1-Naphthol | 90-15-3 | Not listed  |
| Component  | CAS No  | CEPA - 2010 Greenhouse Gases Subject to Mandatory Reporting |
| 1-Naphthol | 90-15-3 | Not listed  |

## EU Classification

### EU GHS - SV - CLP 1272/2008

| Component  | CAS No  | EU GHS - SV - CLP (1272/2008) |
|------------|---------|-------------------------------|
| 1-Naphthol | 90-15-3 |                               |

### EU - CLP (1272/2008)

#### **R-phrase(s)**

R41 - Risk of serious damage to eyes  
R21/22 - Harmful in contact with skin and if swallowed  
R37/38 - Irritating to respiratory system and skin

#### **S -phrase(s)**

S 2 - Keep out of the reach of children.  
S22 - Do not breathe dust  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice  
S37/39 - Wear suitable gloves and eye/face protection

| Component  | CAS No  | Classification              | Concentration Limits: | Safety Phrases    |
|------------|---------|-----------------------------|-----------------------|-------------------|
| 1-Naphthol | 90-15-3 | Xn; R21/22<br>Xi; R37/38-41 | No information        | S2 S22 S26 S37/39 |

The product is classified in accordance with Annex VI to Directive 67/548/EEC

#### Indication of danger:

Xn - Harmful  
Xi - Irritant

## 16. OTHER INFORMATION

Preparation Date: 06/04/2015  
Revision date: 2/11/2019  
Prepared by: Sonia Owen

#### Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no

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**End of Safety Data Sheet**