# spectrum®



# SAFETY DATA SHEET

Preparation Date: 11/11/2019

Revision date 11/11/2019

Revision Number: G1

	Revision date 11/11/2019	Revision Number. Gr			
	1. IDENTIFICATION				
Product identifier					
Product code:	N1014				
Product Name:	2-NAPHTHOL, REAGENT				
Other means of identification	0. Underson was both allows				
Synonyms:	2-Hydroxynaphthalene 2-Naftol (Dutch)				
	2-Naftolo (Italian)				
	2-Naphthalenol				
	2-Naphtol (French)				
	Isonaphthol				
	Naphthol				
	beta-Hydroxynaphthalene				
	beta-Monoxynaphthalene beta-Naftol (Dutch)				
	beta-Naftolo (Italian)				
	beta-Naphthol				
	beta-Naphthyl alcohol				
	beta-Naphthyl hydroxide				
	beta-Naphtol (German)				
CAS #:	135-19-3				
RTECS #	QL2975000				
CI#:	37500				
Recommended use of the chemical and restrictions on use					
Recommended use:	No information available.				
Uses advised against	No information available				
Cumplian	Spectrum Chamical Mfg. Corp.				
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: Contact Person:	Tom Tyner (USA - West Coast) 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)

Product code: N1014

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Gases)	Category 4
Serious eye damage/eye irritation	Category 2

#### Label elements

#### Warning

# Hazard statements

Harmful if swallowed or if inhaled Causes serious eye irritation



#### Hazards not otherwise classified (HNOC) Not Applicable

#### Other hazards

Toxic to aquatic life with long lasting effects Very toxic to aquatic life

#### **Precautionary Statements - Prevention**

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

#### **Precautionary Statements - Response**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell Rinse mouth

#### **Precautionary Statements - Disposal**

Dispose of contents and container to an approved waste disposal plant in accordance with local, regional, national and international regulations as applicable

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight-%
2-Naphthol	135-19-3	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

	1-800-222-1222.
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention if irritation develops. Consult a physician if necessary.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention if irritation occurs. If symptoms persist, call a physician.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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	Causes serious eye irritation
	May cause skin irritation
	May cause irritation of respiratory tract
	Nausea
	Abdominal pain
	May cause diarrhea
	May affect the liver
	It may affect the kidneys
	It may affect the blood

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:	Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.	
Unsuitable Extinguishing Media:	No information available.	
Specific hazards arising from the chemical		
Hazardous combustion products	Carbon monoxide. Carbon dioxide (CO2).	
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. Avoid breathing dust. Remove all sources of ignition. All equipment used when handling the product must be grounded.			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering 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. All equipment used when handling the product must be grounded. Remove all sources of ignition. 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. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

#### Conditions for safe storage, including any incompatibilities

#### Technical Measures/Storage Conditions:

Sensitive to light. Store in light-resistant containers. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition. Store away from incompatible materials.

# Incompatible Materials:

Oxidizing agents

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

# National occupational exposure limits

# **United States**

Component	CAS No	OSHA	NIOSH	ACGIH	AIHA WEEL
2-Naphthol	135-19-3	None	None	None	None

#### Canada

Component	CAS No	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
2-Naphthol	135-19-3	None	None	None	None

#### Australia and Mexico

Component	CAS No	Australia	Mexico
2-Naphthol	135-19-3	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 or Safety glasses with side-shields.
Skin and body protection:	Chemical resistant apron Long sleeved clothing Gloves
Respiratory protection:	Wear respirator with dust filter. Be sure to use an approved/certified respirator or equivalent. 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. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product

# 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state:</b>	<b>Appearance:</b>	<b>Color:</b>
Solid	Flakes.	Tan.
<b>Odor:</b>	<b>Taste</b>	<b>Formula</b>
No information available.	No information available.	C10H7OH
Molecular/Formula weight (g/mole)	: Flammability (solid, gas)	Flashpoint (°C/°F):
144.17	no data available	No information available
Flash Point Tested according to:	Autoignition Temperature (°C/°F):	Lower Explosion Limit (%):
Not available	No information available	No information available
Upper Explosion Limit (%):	<b>Melting point/range(°C/°F):</b>	Decomposition temperature(°C/°F):
No information available	120-123°C/248-253.4°F	No information available
Boiling point/range(°C/°F):	Bulk density:	<b>Density (g/cm3):</b>
No information available	No information available	No information available
Specific gravity:	<b>pH</b>	Vapor pressure @ 20°C (kPa):
No information available	No information available	No information available
Evaporation rate:		

Product code: N1014

No information available

Odor threshold (ppm): No information available

**Miscibility:** 

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: No information available VOC content (g/L): No information available

Viscosity: No information available

No information available

# **10. STABILITY AND REACTIVITY**

Reactivity No information available

Chemical stability	
Stability:	Sensitive to light. Stable under recommended storage conditions.
Possibility of Hazardous Reactions	: Hazardous polymerization does not occur
Conditions to avoid:	Heat. Exposure to light. Ignition sources. Incompatible materials.
Incompatible Materials:	Oxidizing agents
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:** Skin. Eyes. Inhalation. Ingestion.

# Acute Toxicity

# The following values are calculated based on chapter 3.1 of the GHS document **Component Information**

2-Naphthol CAS No 135-19-3 LD50/oral/rat = 1320 mg/kg Oral LD50 Rat LD50/oral/mouse = 98 mg/kg Oral LD50 Mouse LD50/dermal/rabbit = 10 g/kg Dermal LD50 Rabbit LD50/dermal/rat = No information available LC50/inhalation/rat = 2.2 mg/L Inhalation LC50 Rat 4 h = > 770 mg/m<sup>3</sup> Inhalation LC50 Rat **LC50/inhalation/mouse =** No information available Other LD50 or LC50information = 90 mg/kg Oral LD50 Cat;1300 mg/kg Oral LD50 Guinea Pig;5400 mg/kg Oral LD50 Rabbit

# **Product Information**

LD50/oral/rat = Value - Acute Toxicity	.D50/oral/rat = /alue - Acute Toxicity = 1320 mg/kg							
LD50/oral/mouse = Value - Acute Tox = 9	.D50/oral/mouse = /alue - Acute Tox = 98 mg/kg							
LD50/dermal/rabbit Value - Acute Toxicity	<b>.D50/dermal/rabbit</b> /alue - Acute Toxicity = 10 g/kg							
LD50/dermal/rat VALUE - Acute Tox =	No information	on available						
LC50/inhalation/rat VALUE-Vapor = No infor VALUE-Gas = No infor VALUE-Dust/Mist = 2.	mation availa							
LC50/Inhalation/mous VALUE-Vapor = No info VALUE - Gas = No info VALUE - Dust/Mist = N	formation ava	ilable						
Symptoms								
Skin Contact:	Ν	/lay cause sk	in irritation.					
Eye Contact:	C	Causes seriou	us eye irritatio	on.				
Inhalation	F	Harmful by inh	nalation. May	cause irritatio	on of respirat	ory tract.		
Ingestion	C	Harmful if swallowed. May affect liver. May affect urinary system (kidneys). May cause vomiting. May cause diarrhea. May cause abdominal pain. May affect behavior/central nervous system (convulsions/seizures).						
Aspiration hazard	٢	No information available.						
Delayed and immediat	Delayed and immediate effects as well as chronic effects from short and long-term exposure							
Chronic Toxicity	iı	Chronic exposure may affect the liver and kidneys. Prolonged or repeated inhalation may affect the blood (changes in white blood cell count). Prolonged or repeated inhalation may affect the blood (changes in red blood cell count).						
Sensitization:	١	No information available.						
Mutagenic Effects:	s: 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	
2-Nanhthol	135-10-3	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed	

2-Naphthol 135-19-3 Not listed Not listed Not listed Not listed Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

Not listed

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:	Aquatic environment.
2-Naphthol - 135-19-3 Algae/aquatic plants Fish Crustacea	EC50: =18.8mg/L (4h, Pseudokirchneriella subcapitata) LC50: 2.43 - 3.9mg/L (96h, Pimephales promelas) LC50: 3.17 - 3.95mg/L (48h, Daphnia magna)
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available.
Mobility in soil Other adverse effects	No information available 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
2-Naphthol	135-19-3	None	None	None	None

# 14. TRANSPORT INFORMATION

DOT

UN-No: Proper Shipping Name: Not Regulated No information available

Product code: N1014

Hazard Class No information available Subsidiary Class No information available No information available Packing group: Emergency Response Guide No information available Number Marine Pollutant No data available DOT RQ (lbs): No information available **Special Provisions** No Information available Symbol(s): No information available **Description:** No information available TDG (Canada) UN-No: Not Regulated Proper Shipping Name: No information available **Hazard Class** No information available Subsidiary Risk: No information available Packing Group: No information available Marine Pollutant No Information available No information available **Description:** ADR **UN Number** Not regulated No information available **Proper Shipping Name:** Transport hazard class(es) No information available No information available Packing group Subsidiary Risk: No information available IMDG UN-No: Not Regulated **Proper Shipping Name:** No information available Hazard Class: No information available Subsidiary Risk: No information available Packing Group: No information available Marine Pollutant No information available RID **UN Number** Not Regulated **Proper Shipping Name:** No information available No information available Transport hazard class(es) Subsidiary Risk: No information available **Packing group** No information available ICAO (air) UN-No: Not Regulated **Proper Shipping Name:** No information available **Hazard Class** No information available Subsidiary Risk: No information available Packing Group: No information available ΙΑΤΑ **UN Number** Not Regulated Proper Shipping Name: No information available No information available Transport hazard class(es) Subsidiary Risk: No information available Packing group No information available Precautionary Statements -No information available Response No information available **Special Provisions** 

Product code: N1014

# 15. REGULATORY INFORMATION

#### International Inventories

Component	CAS No	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	China IECSC	Australia (AICS)	EINECS-No.
2-Naphthol	135-19-3	PresentACTIV E	Present KE-25704	Present	Present (4)-355	Present	Present	Present 205-182-7

### 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	Female
					Reproductive
				Toxicity	Toxicity:
2-Naphthol	135-19-3	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
2-Naphthol	135-19-3	None	None	None	None	None

#### U.S. TSCA

Component		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	
2-Naphthol	135-19-3	Not Applicable	Not Applicable

#### Canada

#### WHIMIS 2015 - GHS Classifications

WHMIS 2015 Hazard Classification Information:

Component 2-Naphthol 135-19-3 (100)

#### WHMIS 2015 Hazard Classification

Acute toxicity - Oral - Category 4: H302 Harmful if swallowed.; Acute toxicity - Inhalation - Category 4: H332 Harmful if inhaled.; Serious Eye Damage/Eye Irritation - Category 2A: H319 Causes serious eye irritation.; Skin sensitizers - Category 1B: H317 May cause allergic skin reaction.; 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

2-Naphthol 135-19-3 Prese	nt	Not Listed

Component	CAS No	CEPA Schedule I - Toxic Substances
2-Naphthol	135-19-3	Not listed
Component	CAS No	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
2-Naphthol	135-19-3	Not listed

# EU Classification

# EU GHS - SV - CLP 1272/2008

Component	CAS No	EU GHS - SV - CLP (1272/2008)
2-Naphthol	135-19-3	Acute toxicity - Oral - Acute Tox. 4:
		H302 Harmful if swallowed. (Minimum
		classification); Acute toxicity -
		Inhalation - Acute Tox. 4: H332
		Harmful if inhaled. (Minimum
		classification); Hazardous to aquatic
		environment - acute hazard - Aquatic
		Acute 1: H400 Very toxic to aquatic
		life.604-007-00-5

# EU - CLP (1272/2008)

# R-phrase(s)

R36 - Irritating to eyes R20/22 - Harmful by inhalation and if swallowed

# S -phrase(s)

S 7 - Keep container tightly closed.

S 9 - Keep container in a well-ventilated place.

S36 - Wear suitable protective clothing

S38 - In case of insufficient ventilation, wear suitable respiratory equipment

S39 - Wear eye/face protection

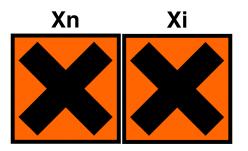
S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

Component	CAS No		Concentration Limits:	Safety Phrases
2-Naphthol		Xn; R20/22 N; R50	No information	

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

# Indication of danger:

Xn - Harmful Xi - Irritant



# **16. OTHER INFORMATION**

**Disclaimer:** 

Preparation Date:	11/11/2019
Revision date	11/11/2019
Prepared by:	Sonia Owen

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 responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

# End of Safety Data Sheet