# spectrum®



# SAFETY DATA SHEET

Preparation Date: 2/8/2016	Revision Date: 2/8/2016	Revision Number: G1
	1. IDENTIFICATION	
Product identifier		
Product code:	NA107	
Product Name:	1-NAPHTHALENEACETIC ACID	
Other means of identification		
	Acide naphthylacetique (French)	
Synonyms:	Naphthaleneacetic acid	
	alpha-Naphthaleneacetic acid	
	Kyselina 1-naftyloctova (Czech)	
	alpha-Naphthylacetic	
	Naphthylacetic acid	
	alpha-Naphthylacetic acid	
	1-Naphthylacetic acid	
	2-(1-Naphthyl)acetic acid alpha-Naphthyleneacetic acid	
	alpha-Naphthylessigsaeure (German)	
	Naphyl-1-essigsaeure (German)	
	Naphthalene-1-acetic acid	
CAS #:	86-87-3	
RTECS #	QJ0875000	
CI#:	Not available	
Recommended use of the cher		
Recommended use:	Plant growth regulator.	
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:	Martin LaBenz (West Coast)	
Contact Person:	Ibad Tirmiz (East Coast)	
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# 2. HAZARDS IDENTIFICATION

# **Classification**

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

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

# Label elements

### Warning

**Hazard statements** Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Not available

# **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 Wear eye/face protection

# **Precautionary Statements - Response**

Specific treatment (see .? on this label) 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 advice/attention. IF ON SKIN: Wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash before reuse IF INHALED: Remove victim to fresh air and keep at rest in a position 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**

Components	CAS-No.	Weight %
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3. COMPOSITION/INFORMATION ON INGREDIENTS		
1-Naphthaleneacetic Acid	86-87-3	100
86-87-3		

4. FIRST AID MEASURES		
First aid measures General Advice:	Poison information centers in each State capital city can provide additional assistance for scheduled poisons (13 1126).	
Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention. If skin irritation persists, call a physician.	
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.	
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	Irritating to eyes and skin. Irritating to respiratory system. gastroenteritis. Central nervous system depression.	
Indication of any immediate medical attention and special treatment needed		
Notes to Physician:	Treat symptomatically	
Protection of first-aiders	a blood or body fluida. Wear aloyee and other peacesary protective elething. Dispace of	

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

# Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapours/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:**

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

# **Incompatible Materials:**

Oxidizing agents. Bases.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Control parameters**

# National occupational exposure limits

**United States** 

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
1-Naphthaleneacetic Acid	None	None	None	None
86-87-3				

# Canada

Components	Alberta	British Columbia	Ontario	Quebec
1-Naphthaleneacetic Acid	None	None	None	None
86-87-3				

# **Australia and Mexico**

Components Australia	Mexico
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1-Naphthaleneacetic Acid	None	None
86-87-3		

# 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:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Effective dust mask. 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

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Physical state: Solid.

Odor: Odorless.

Molecular/Formula weight: 186.20

Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available

**Melting point/range(°C/°F):** 125-133 °C/257-271.4 °F

Bulk density: No information available

Vapor pressure @ 20°C (kPa): No information available

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

Viscosity: No information available Appearance: Crystalline. Crystals.

Taste No information available

Flammability: No information available

Flash Point Tested according to: Not applicable

Upper Explosion Limit (%): No information available

**Boiling point/range(°C/°F):** No information available

Density (g/cm3): No information available

**Evaporation rate:** No information available

Odor threshold (ppm): No information available

Miscibility: No information available Color: White.

Formula: C12-H10--O2

Flash point (°C): No data available

Autoignition Temperature (°C/°F): No information available

**pH:** No information available

**Decomposition temperature(°C/°F):** No information available

**Specific gravity:** No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): 2.24

Solubility: Slightly soluble in Ethanol Soluble in Benzene Soluble in Acetic acid Very soluble in Ether Very soluble in chloroform Very soluble in Acetone Practically insoluble in water Solubility in Water: 420 mg/l @ 20 deg. C

# **10. STABILITY AND REACTIVITY**

Reactivity Reactive with bases Reactive with oxidizing agents

<u>Chemical stability</u> Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Incompatible materials.
Incompatible Materials:	Oxidizing agents. Bases.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide.
Other Information	

Corrosivity:

No information available

# **11. TOXICOLOGICAL INFORMATION**

# Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Acute Toxicity

# **Component Information**

1-Naphthaleneacetic Acid - 86-87-3
LD50/oral/rat = = 1 g/kg Oral LD50 Rat
LD50/oral/mouse = No information available
LD50/dermal/rat = No information available
LD50/dermal/rabbit = No information available
LC50/inhalation/rat = No information available
LC50/inhalation/mouse = No information available
Other LD50 or LC50information = No information available

**Product Information** 

LD50/oral/rat = VALUE- Acute Tox Oral = 1000mg/kg

LD50/oral/mouse = Value - Acute Tox Oral = 743mg/kg

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

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 = No information available

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

Symptoms

Skin Contact:	Causes skin irritation. Moderately irritating to the skin.
Eye Contact:	Causes serious eye irritation. Causes moderate to severe eye irritation.
Inhalation	Irritating to respiratory system
Ingestion	Harmful if swallowed. May cause gastroenteritis. It may cause central nervous system depression.

Product code: NA107

Aspiration hazard	No information available				
Delayed and immediate effects a	Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Chronic Toxicity	Prolonged or repeated ingestion may affect the liver Prolonged or repeated ingestion may affect the blood (pigmented or nucleated red blood cells) Prolonged or repeated ingestion may cause loss of appetite Prolonged or repeated skin contact may cause moderate skin irritation with local redness				
Sensitization:	No information available				
Mutagenic Effects:	Mutations in microorganisms Experiments with bacteria and/or yeast have shown mutagenic effects				

Carcinogenic effects: Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
1-Naphthaleneacetic Acid	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

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	Respiratory system.
STOT - repeated exposure	No information available

# 12. ECOLOGICAL INFORMATION

# Ecotoxicity

**Ecotoxicity effects:** 

Target Organs:

1-Naphthaleneacetic Acid - 86-87-3				
Freshwater Fish Species Data:	LC50 - Oncorhynchus mykiss Rainbow trout) - 28 mg/l - 96 hr. LC50 - Lepomis macrochirus (Bluegill) - 41 mg/l - 96 hr.			
Water Flea Data:	EC50 - Daphnia magna - 180 mg/l - 48 hr.			
Persistence and degradability:	No information available			
Bioaccumulative potential:	Potential for bioconcentration in aquatic organisms is low.			
Mobility:	It is expected to have a moderate mobility in soil upon estimated Koc.			

No information available

Aquatic environment.

# **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

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
1-Naphthaleneacetic Acid	None	None	None	None

# **14. TRANSPORT INFORMATION**

DOT	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Subsidiary Risk:	No information available
Packing Group:	None
ERG No:	No information available
Marine Pollutant	No data available
DOT RQ (lbs):	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
Description:	No information available
ADR	
UN-No:	Not Regulated
Proper Shipping Name:	No information available
Hazard Class:	No information available
Packing Group:	No information available
Subsidiary Risk:	No information available
Classification Code:	No information available
Description:	No information available
<b>CEFIC Tremcard No:</b>	No information available
IMO / IMDG	Net De sudate d
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
Description:	No information available
IMDG Page:	No information available
Marine Pollutant	No information available

MFAG:

No information available

# **14. TRANSPORT INFORMATION** No information available

**Maximum Quantity:** 

# RID

Proper Shipping Name:NoHazard Class:NoSubsidiary Risk:NoPacking Group:NoClassification Code:No	ot Regulated o information available o information available o information available o information available o information available o information available
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# **ICAO**

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
Description:	No information available
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# ΙΑΤΑ

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
Description:	No information available

# **15. REGULATORY INFORMATION**

# International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
1-Naphthaleneacetic Acid	Present	Present KE- 25546	Present	Present (4)- 1014	Present	Present	Present 201-705-8

# **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)

Components	Carcinogen	Developmental Toxicity	Male Reproductive Toxicity	Female Reproductive Toxicity:
1-Naphthaleneacetic Acid	Not Listed	Not Listed	Not Listed	Not Listed

# CERCLA/SARA

	Substances and their	Section 302 Extremely Hazardous Substances and TPQs	Hazardous	Chemical Category	Section 313 - Reporting de minimis
1-Naphthaleneacetic Acid	None	None	None	None	None

### U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
1-Naphthaleneacetic Acid	Not Applicable	Not Applicable

# Canada

# WHMIS hazard class:

D2B Toxic materials

# **Canada Controlled Products Regulation:**

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

### Inventory

Components	Canada (DSL)	Canada (NDSL)
1-Naphthaleneacetic Acid	Present	Not Listed

Components		CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
1-Naphthaleneacetic Acid	Not listed	Not listed

# **EU Classification**

# R-phrase(s)

R22 - Harmful if swallowed. R36/37/38 - Irritating to eyes, respiratory system and skin.

# S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S46 - If swallowed, seek medical advice immediately and show this container or label.

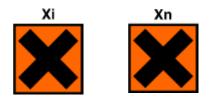
S37/39 - Wear suitable gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
1-Naphthaleneacetic Acid		No information	

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

**Indication of danger:** Xi - Irritant.

Xn - Harmful.



# **16. OTHER INFORMATION**

Preparation Date: Revision Date: Prepared by: 2/8/2016 2/8/2016 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 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**