



# SAFETY DATA SHEET

Preparation Date: 11/11/2016 Revision Date: 11/11/2016 Revision Number: G1

# 1. IDENTIFICATION

Product identifier

Product code: N3056

Product Name: NICLOSAMIDE

Other means of identification

**Synonyms:** 5-Chloro-2'-chloro-4'-nitrosalicylanilide

2-Chloro-4-nitrophenylamide-6-chlorosalicylic acid N-(2-Chloro-4-nitrophenyl)-5-chlorosalicylamide

2',5-Dichloro-4'-nitrosalicylanilide

Benzamide, 5-chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxy-2-Hydroxy-5-chloro-N-(2-chloro-4-nitrophenyl)benzamide

CAS #: 50-65-7

RTECS # VN8400000

CI#: Not available

Recommended use of the chemical and restrictions on use

Recommended use:
Uses advised against
No information available.
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 numberChemtrec 1-800-424-9300Contact Person:Martin LaBenz (West Coast)Contact Person:Ibad Tirmiz (East Coast)

# 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

#### Label elements

	Not classified
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l	

#### Hazards not otherwise classified (HNOC)

Not Applicable

Other hazards
Not available

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#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Niclosamide	50-65-7	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. Consult a physician if necessary.

Most important symptoms and effects, both acute and delayed

Symptoms May cause eye/skin/respiratory tract irritation. May cause anorexia. Ingestion may cause

nausea, vomiting, and diarrhea. May cause constipation. May cause drowsiness or

dizziness. Headache. Irritability. Mild stomach pain.

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 (CO2). Dry chemical. Water spray mist or

foam.

Unsuitable Extinguishing Media: No information available.

Specific hazards arising from the chemical

Hazardous Combustion Products: Carbon Dioxide, Carbon Monoxide. Nitrogen Oxides.

Hydrogen chloride.

Specific hazards: May be combustible at high temperatures

**Special Protective Actions for Firefighters** 

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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. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Avoid dust formation. Remove all sources of ignition.

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

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. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

#### Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Keep away from heat and sources of ignition. Avoid dust formation. 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. Protect from light. Sensitive to light. Store in light-resistant containers.

#### **Incompatible Materials:**

Strong bases Acids Strong oxidizing agents

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Control parameters

# **National occupational exposure limits**

## **United States**

Components	CAS-No.	OSHA	NIOSH	ACGIH	AIHA WHEEL
Niclosamide	50-65-7	None	None	None	None

#### Canada

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Components	CAS-No.	Canada - Alberta	Canada - British Columbia	Canada - Ontario	Canada - Quebec
Niclosamide	50-65-7	None	None	None	None

#### **Australia and Mexico**

Components	CAS-No.	Australia	Mexico
Niclosamide	50-65-7	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

**Lower Explosion Limit (%):** 

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:** 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

Physical state: Appearance: Color:

Solid Powder. Off-white. Light yellow. Yellow.

Odor: Taste Formula:

No information available. Tasteless. C13H8Cl2N2O4

Molecular/Formula weight: Flammability: Flashpoint (°C/°F):

No information available No information available.

Flash Point Tested according to:

Not available No information available No information available

ot available No information available No information available

Upper Explosion Limit (%): Melting point/range(°C/°F): Decomposition temperature(°C/°F):

Autoignition Temperature (°C/°F):

No information available 225-230°C/437-446°F No information available

Boiling point/range(°C/°F): Bulk density: Density (g/cm3):

Specific gravity: pH: Vapor pressure @ 20°C (kPa):

**Evaporation rate:** 

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No information available Vapor density:

No information available

VOC content (g/L):
No information available

Odor threshold (ppm): Partition coefficient

No information available (n-octanol/water):

Viscosity:
No information available

No information available

Miscibility: Solubility:

No information available Soluble in Acetone

Sparingly soluble in Ether Sparingly soluble in Ethyl alcohol Sparingly soluble in chloroform Practically insoluble in water

# 10. STABILITY AND REACTIVITY

Reactivity

Reactive with acids

May react with strong oxidizers Reacts with strong bases

**Chemical stability** 

**Stability:** Stable under recommended storage conditions.

Possibility of Hazardous Reactions: Hazardous polymerization does not occur

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

Incompatible Materials: Strong bases

Acids

Strong oxidizing agents

Hazardous decomposition

products:

Carbon monoxide. Carbon dioxide. Nitrogen oxides (NOx). Hydrogen chloride.

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:**

Ingestion. Inhalation.

#### **Acute Toxicity**

#### **Component Information**

Niclosamide
CAS-No. 50-65-7

**LD50/oral/rat** = 2500 mg/kg Oral LD50 Rat

LD50/oral/mouse = 1000 mg/kg

LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available

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LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = >5000 mg/kg oral LD50 Rabbit

#### **Product Information**

LD50/oral/rat =

VALUE- Acute Tox Oral = 2500 mg/kg

LD50/oral/mouse =

Value - Acute Tox Oral = 1000 mg/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: May cause skin irritation.

Eye Contact: May cause eye irritation.

**Inhalation** May cause irritation of respiratory tract.

**Ingestion** May cause anorexia. May cause hypermotility, diarrhea. May cause nausea. May

cause mild stomach pain. May cause vomiting. May affect behavior/central nervous system (dizziness, drowsiness). May cause headache. It may affect

behavior/central nervous system (irritability). May cause constipation.

**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.

Components	CAS-No.	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Niclosamide	50-65-7	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH (American Conference of Governmental Industrial Hygienists)

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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
STOT - repeated exposure
Target Organs:

No information available.
No information available.
No information available.

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

**Ecotoxicity effects:** No data available.

Persistence and degradability: No information available

**Bioaccumulative potential:** No information available.

**Mobility:** 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

Components	CAS-No.	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Niclosamide	50-65-7	None	None	None	None

#### 14. TRANSPORT INFORMATION

DOT

**UN-No:** Not Regulated

Proper Shipping Name: No information available Hazard Class: No information available Subsidiary Class No information available Packing group: No information available Emergency Response Guide No information available

Number

Marine Pollutant No data available

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

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Special ProvisionsNo Information availableSymbol(s):No information availableDescription:No information available

TDG (Canada)

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant
Description:
No information available

**ADR** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
No information available

IMO / IMDG

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
Marine Pollutant

No information available
No information available
No information available
No information available

RID

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available

**ICAO** 

**UN-No:** Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:

No information available
No information available
No information available
No information available

**IATA** 

UN-No: Not Regulated

Proper Shipping Name:
Hazard Class:
Subsidiary Risk:
Packing Group:
ERG Code:
Special Provisions
No information available

#### 15. REGULATORY INFORMATION

#### International Inventories

Components	CAS-No.	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Niclosamide	50-65-7	Not Listed	Not present	Present	Not present	Not present	Present	Present 200-056-8

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# **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	CAS-No.	Carcinogen	Developmental Toxicity	Male	Female
				Reproductive	Reproductive
				Toxicity	Toxicity:
Niclosamide	50-65-7	Not Listed	Not Listed	Not Listed	Not Listed

#### **CERCLA/SARA**

Components	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
Niclosamide	50-65-7	None	None	None	None	None

#### U.S. TSCA

Components		TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Niclosamide	50-65-7	Not Applicable	Not Applicable

#### Canada

# WHMIS hazard class:

Non-controlled

# **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	CAS-No.	Canada (DSL)	Canada (NDSL)
Niclosamide	50-65-7	Not Listed	Not Listed

Components	CAS-No.	CEPA Schedule I - Toxic Substances
Niclosamide	50-65-7	Not listed
Components	CAS-No.	CEPA - 2010 Greenhouse Gases Subject
		to Mandatory Reporting
Niclosamide	50-65-7	Not listed

# EU Classification R-phrase(s)

not determined (not applicable)

# S -phrase(s)

none

Components	CAS-No.	Classification	Concentration Limits:	Safety Phrases
Niclosamide	50-65-7			

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No information

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

#### Indication of danger:

Not dangerous

#### 16. OTHER INFORMATION

Preparation Date:11/11/2016Revision Date:11/11/2016Prepared 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 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** 

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