

## Safety Data Sheet


### Section 1: Product & Company Identification

<b>Product Name:</b>	Niclosamide
<b>Product #:</b>	N-1219
<b>Synonyms:</b>	BAY-6076; BAY-73; Bayer 6076; Bayer 73; HL 2448; NSC 178296; 5-chloro-N-(2-chloro-4-nitrophenyl)-2-hydroxy-benzamide
<b>Supplier:</b>	AG Scientific Holdings, LLC 9950 Scripps Lake Drive, Suite 104 San Diego, CA 92131 Tele# + 858-452-9925
<b>Emergency Tele#:</b>	ChemTel, Tele# in USA 1-800-255-3924, International 1-813-248-0585

### Section 2: Composition / Information on Ingredients

Component	CAS #	EC #	% Composition
Niclosamide	50-65-7	200-056-8	≥95

### Section 3: Hazards Identification

<b>Symbols</b>	
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#### HMIS Rating

Health Hazard	Chronic Health Hazard	Flammability	Physical Hazard
1	0	0	0

#### NFPA Rating

Health Hazard	Fire Hazard	Reactivity Hazard
0	0	0

### Section 4: First Aid Measures

<b>General Overview:</b>	No special measures required.
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<b>Inhalation:</b>	Supply fresh air; consult doctor in case of complaints.
<b>Skin:</b>	Generally, the product does not irritate the skin.
<b>Eyes:</b>	Rinse opened eyes for several minutes under running water.
<b>Ingestion:</b>	If symptoms persist, consult a doctor.
	See section 11 for more detailed information on health effects & symptoms.

## SECTION 5: Fire Fighting Measures

<b>Flammability of the product:</b>	Product is not flammable.
<b>Extinguishing Media:</b>	Use fire fighting measures that suit the environment. A solid water stream may be inefficient.
<b>Hazardous thermal (de)composition products:</b>	No data available
<b>Special Fire Fighting Procedures:</b>	No data available
<b>Flash Point:</b>	No data available





## Section 6: Accidental Release Measures

<b>Personal Precautions:</b>	Not required.
<b>Environmental Precautions:</b>	Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/surface or ground water.
<b>Methods for Clean-up:</b>	Pick up mechanically.

## SECTION 7: Handling & Storage

<b>Storage:</b>	Recommended storage temperature: -20°C
<b>Handling:</b>	No special precautions are necessary if used correctly. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid prolonged or repeated exposure. Keep away from sources of ignition. Take precautionary measures against static discharge.

## SECTION 8: Exposure controls / Personal Protection

<b>Respiratory Protection:</b>	 <p>Not required.</p>
<b>Skin and Body:</b>	<div>   </div> <p>The glove material must be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.</p> <p>Lab coat.</p>
<b>Eyes:</b>	 <p>Not required.</p>
<b>Ventilation/Engineering Measures:</b>	Ensure adequate ventilation.
<b>Hygiene:</b>	Follow standard good industrial hygiene.
<b>Other:</b>	Contains no substances with occupational exposure limit values.

## SECTION 9: Physical and Chemical Properties

<b>Appearance &amp; Odor:</b>	Crystalline. Characteristic odor.
<b>Formula</b>	$C_{13}H_8Cl_2N_2O_4$

<b>Molecular Wt.</b>	327.1
<b>Melting Pt.</b>	No data available
<b>Boiling Pt.</b>	No data available
<b>Density:</b>	No data available
<b>Vapor Pressure:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor Density:</b>	No data available
<b>Solubility:</b>	Ethanol (0.5 mg/mL)
<b>Flash Point:</b>	No data available
<b>Autoignition Temp:</b>	No data available

## SECTION 10: Stability and Reactivity

<b>Stability:</b>	Stable under recommended conditions.
<b>Hazardous decomposition products:</b>	Carbon oxides, Nitrogen oxides, Phosgene
<b>Materials to Avoid:</b>	Strong oxidizing agents
<b>Conditions to avoid:</b>	No data available

## SECTION 11: Toxicological Information

<b>RTECS#:</b>	VN8400000
<b>ACUTE Toxicity:</b>	Oral LD50 = 2,500 mg/kg (rat) LD50 = 1 g/kg (mouse) TDLO = 28.6 mg/kg (human) Intraperitoneal LD50 = 250 mg/kg (rat)
<b>CHRONIC Toxicity:</b>	N/A
<b>Chronic Exposure:</b> <b>Carcinogen:</b> <b>Mutagen:</b> <b>Teratogen:</b> <b>Reproductive:</b>	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. AGGIH: No component of this product present at levels greater than or equal to 0.1% is identified as probable, potential human carcinogen by AGGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as known or anticipated human carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as known or potential human carcinogen by OSHA. EPA: No classification on carcinogenic data is available from EPA

## SECTION 12: Ecological Information

<b>Ecotoxicity:</b>	Water hazard class 2 (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms
<b>Mobility:</b>	No data available
<b>Persistence and degradability:</b>	No data available
<b>Bioaccumulative potential:</b>	No data available
<b>Other adverse effects:</b>	No data available
<b>Corrosivity Characteristic:</b>	No data available
<b>General Notes:</b>	Very toxic for fish

## SECTION 13: Disposal Considerations

<b>Residue Waste or Unused product:</b>	Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
<b>Contaminated Packaging:</b>	Disposal must be made according to official regulations.

## SECTION 14: Transportation Information

<b>UN ID#:</b>	UN3077
<b>ADR / RID (LAND):</b>	
<b>DOT regulations:</b>	Environmentally hazardous substance, solid, n.o.s. (Niclosamide) Class: 9 Miscellaneous dangerous substances and articles Packing Group: III  Quantity Limitations: <ul style="list-style-type: none"> <li>On passenger aircraft/rail: 400 kg</li> <li>On cargo aircraft only: 400 kg</li> </ul>
<b>IMDG/IMO (SEA):</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Niclosamide) Class: 9 Miscellaneous dangerous substances and articles. Packing Group: III  Limited Quantities (LQ): 5 kg Excepted Quantities (EQ): Code: E1 <ul style="list-style-type: none"> <li>Maximum net quantity per inner packaging: 30 g</li> <li>Maximum net quantity per outer packaging: 1000 g</li> </ul>
<b>IATA/DGR (AIR):</b>	Environmentally hazardous substance, solid, n.o.s. (Niclosamide) Class: 9 Miscellaneous dangerous substances and articles Packing Group: III

	Remarks: When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
<b>Special Provisions:</b>	Warning: Miscellaneous dangerous substances and articles. Hazard identification number (Kemler code): 90 EMS Number: F-A,S-F Stowage Category: A Stowage Code: SW23 When transported in BK3 bulk container.

## SECTION 15: Regulatory Information

<b>Health Phrases:</b>	Warning! H410 Very toxic to aquatic life with long lasting effects.
<b>Risk Phrases:</b>	P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
<b>Safety Phrases:</b>	N/A
<b>EU Regulations:</b>	N/A
<b>US Regulations:</b>	TSCA: Not listed California Proposition 65: No products were found.
<b>U.S. Federal Regulations:</b>	SARA 302/304 emergency planning and notification: No products were found. SARA 311/312 MSDS distribution-chemical inventory-hazard identification: No products were found. SARA 313 toxic chemicals notification and release reporting: No products were found.  Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found. Clean Air Act (CAA) 112 accidental release prevention: No products were found. Clean Air Act (CAA) 112 regulated flammable substances: No products were found. Clean Air Act (CAA) 112 regulated toxic substances: No products were found. OSHA: Aquatic Acute (Cat. 1); Aquatic Chronic (Cat. 1)
<b>WHMIS (Canada):</b>	N/A

## SECTION 16: Other Information



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