

**SIGMA-ALDRICH****SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

Version 3.0 Revision Date 31.12.2008

Print Date 18.06.2010

GENERIC EU MSDS - NO COUNTRY SPECIFIC DATA - NO OEL DATA

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product name : Niclosamide

Product Number : N3510

Brand : Sigma

Company : Sigma-Aldrich (Shanghai) Trading Co.,Ltd  
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**2. HAZARDS IDENTIFICATION**

This substance is not classified as dangerous according to Directive 67/548/EEC.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : 2',5-Dichloro-4'-nitrosalicylanilide

Formula :  $C_{13}H_8Cl_2N_2O_4$

Molecular Weight : 327,12 g/mol

CAS-No.	EC-No.	Index-No.	Classification	Concentration
<b>Niclosamide</b>				
50-65-7	200-056-8	-	-	-

**4. FIRST AID MEASURES****If inhaled**

If breathed in, move person into fresh air. If not breathing give artificial respiration

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions**

Avoid dust formation.

**Environmental precautions**

Do not let product enter drains.

**Methods for cleaning up**

Sweep up and shovel. Keep in suitable, closed containers for disposal.

**7. HANDLING AND STORAGE****Handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

**Storage**

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Personal protective equipment****Respiratory protection**

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**

For prolonged or repeated contact use protective gloves.

**Eye protection**

Safety glasses

**Hygiene measures**

General industrial hygiene practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Appearance**

Form	powder
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**Safety data**

pH	no data available
Melting point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Water solubility	no data available

**10. STABILITY AND REACTIVITY**

**Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

Strong oxidizing agents

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Hydrogen chloride gas

**11. TOXICOLOGICAL INFORMATION****Acute toxicity**

LD50 Oral - rat - 2.500 mg/kg

**Irritation and corrosion**

no data available

**Sensitisation**

no data available

**Chronic exposure**

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.

Genotoxicity in vitro - Human - lymphocyte  
Sister chromatid exchange

Genotoxicity in vivo - mouse - Oral  
sperm

Genotoxicity in vivo - mouse - Intraperitoneal  
Sister chromatid exchange

Reproductive toxicity - mouse - Oral

Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count).

**Potential Health Effects**

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.
<b>Ingestion</b>	May be harmful if swallowed.

**Additional Information**

RTECS: VN8400000

**12. ECOLOGICAL INFORMATION****Elimination information (persistence and degradability)**

Bioaccumulation	Oncorhynchus mykiss (rainbow trout) - 8 d Bioconcentration factor (BCF): 250
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**Ecotoxicity effects**

Toxicity to fish	LC50 - Brachydanio rerio (zebra fish) - 0,11 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates.	EC50 - Daphnia magna (Water flea) - 0,002 mg/l - 24 h

**Further information on ecology**

no data available

### 13. DISPOSAL CONSIDERATIONS

**Product**

Observe all federal, state, and local environmental regulations.

**Contaminated packaging**

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**ADR/RID**

UN-Number: 3077 Class: 9

Packing group: III

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Niclosamide)

**IMDG**

UN-Number: 3077 Class: 9

Packing group: III

EMS-No: F-A, S-F

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Niclosamide)

Marine pollutant: Severe marine pollutant

**IATA**

UN-Number: 3077 Class: 9

Packing group: III

Proper shipping name: Environmentally hazardous substance, solid n.o.s. (Niclosamide)

### 15. REGULATORY INFORMATION

**Labelling according to EC Directives****Further information:**

The product does not need to be labelled in accordance with EC directives or respective national laws.

### 16. OTHER INFORMATION

**Further information**

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