

## 1. IDENTIFICATION

<b>Product Name</b>	N-Nitrosodiclofenac
<b>Catalogue Number</b>	ND276
<b>Recommended Use</b>	Laboratory research and development.
<b>Supplier</b>	Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada
<b>Emergency Phone No.</b>	+1-905-669-0017
<b>Email</b>	admin@synthose.com

## 2. HAZARD IDENTIFICATION

### Classification

Acute toxicity, oral (Category 3)  
 Carcinogenicity (Category 2)  
 Reproductive toxicity (Category 2)  
 Specific target organ toxicity, repeated exposure (Category 1)  
 Hazardous to the aquatic environment, long-term hazard (Category 2)

### Label Elements

#### Pictogram



**Signal Word** Danger

### Hazard Statements

H301:	Toxic if swallowed
H351:	Suspected of causing cancer
H361:	Suspected of damaging fertility or the unborn child
H372:	Known to be toxic to humans after repeated exposure
H411:	Toxic to aquatic life with long lasting effects

### Precautionary Statements

P201:	Obtain special instructions before use.
P202:	Do not handle until all safety precautions have been read and understood.
P260:	Do not breathe dust/fume/gas/mist/vapors/spray.
P264:	Wash skin thoroughly after handling.
P270:	Do not eat, drink or smoke when using this product.
P273:	Avoid release to the environment.
P281:	Use personal protective equipment as required.
P301 + P310 + P330:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.
P308 + P313:	IF exposed or concerned: Get medical advice/attention.
P319:	Get medical help if you feel unwell.
P391:	Collect spillage.
P405:	Store locked up.
P501:	Dispose of in accordance with local, regional, and/or federal regulations.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<b>Chemical Name</b>	N-Nitrosodiclofenac
<b>Synonyms</b>	2-[(2,6-Dichlorophenyl)nitrosoamino]benzeneacetic acid, NCX 284
<b>CAS Number</b>	66505-80-4
<b>Molecular Formula</b>	C <sub>14</sub> H <sub>10</sub> Cl <sub>2</sub> N <sub>2</sub> O <sub>3</sub>
<b>Molecular Weight</b>	325.15

Component	CAS Number	Concentration
N-Nitrosodiclofenac	66505-80-4	100%

#### 4. FIRST-AID MEASURES

<b>Inhalation</b>	Call a POISON CENTER or doctor/physician if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
<b>Skin Contact</b>	Wash with plenty of soap and water.
<b>Eye Contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 15 minutes.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

#### Most Important Symptoms and Effects, Acute and Delayed

Not determined

#### 5. FIRE-FIGHTING MEASURES

<b>Suitable Extinguishing Media</b>	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	Not determined
<b>Special Protective Equipment and Precautions for Firefighters</b>	Not determined

#### Specific Hazards Arising from the Hazardous Product

<b>Hazardous Combustion Products</b>	Carbon oxides, Hydrogen chloride gas, Nitrogen oxides
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#### 6. ACCIDENTAL RELEASE MEASURES

<b>Personal Precautions, Protective Equipment and Emergency Procedures</b>	Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or spray.
<b>Methods and Materials for Containment and Cleaning Up</b>	Pick up and arrange disposal without creating dust. Sweep up and shovel or soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

<b>Precautions for Safe Handling</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Use personal protective equipment as required.
<b>Conditions for Safe Storage</b>	Store at 0 to -20 °C. Store locked up.
<b>Incompatible Materials</b>	Not determined

#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Occupational Exposure Guidelines</b>	Not determined
<b>Appropriate Engineering Controls</b>	Use mechanical exhaust or laboratory fume hood to avoid exposure.

#### Individual Protection Measures / Personal Protective Equipment

<b>Eye/Face Protection</b>	Wear safety glasses with side-shields, chemical safety goggles, or face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin Protection</b>	Handle with gloves. Wear long-sleeved lab coat. Do not wear open-toed shoes.
<b>Respiratory Protection</b>	Use particle respirator for nuisance exposures. For greater protection, use half or full face mask respirator with cartridges. Respiratory equipment should be tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light Yellow Solid	Flammable/Explosive Limits	Not determined
Odour	Not determined	Vapour Pressure	Not determined
Odour Threshold	Not determined	Vapour Density	Not determined
pH	Not determined	Relative Density	Not determined
Melting Point	Not determined	Solubility	DMSO, MeOH, DMF, DCM
Boiling Point	Not determined	Partition Coefficient log K <sub>OW</sub>	Not determined
Flash Point	Not determined	Auto-ignition Temperature	Not determined
Evaporation Rate	Not determined	Decomposition Temperature	Not determined
Flammability (solid, gas)	Not determined	Viscosity	Not determined

## 10. STABILITY AND REACTIVITY

Reactivity	Not reactive
Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	None expected under normal conditions of storage and use
Conditions to Avoid	Open flames, sparks, static discharge, excessive heat
Incompatible Materials	Not determined
Hazardous Decomposition Products	
Formed under Fire Conditions	Carbon oxides, Hydrogen chloride gas, Nitrogen oxides

## 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure	Ingestion
Acute toxicity, oral	Toxic if swallowed ATE Oral (mg/kg) - 100
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	Suspected of damaging fertility or the unborn child
Specific target organ toxicity, repeated exposure	Known to be toxic to humans after repeated exposure
Hazardous to the aquatic environment, long-term hazard	Toxic to aquatic life with long lasting effects
Inhalation	May be harmful if inhaled, may cause respiratory tract irritation
Skin Contact	May be harmful in contact with skin, may cause skin irritation
Eye Contact	May cause eye irritation

## 12. ECOLOGICAL INFORMATION

Not determined

## 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and/or federal regulations.  
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 14. TRANSPORT INFORMATION

UN Number	UN2811
Proper Shipping Name	Toxic solids, organic, n.o.s. (N-Nitrosodiclofenac)
Hazard Class	6.1 Poisonous Material
Packing Group	III
Exempted Quantity	Packagings of up to 30g in a total shipment of 1kg

## 15. REGULATORY INFORMATION

Canada DSL / NDSL	The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.
USA TSCA	Negative Certification

## 16. OTHER INFORMATION

Latest Revision 2026-02-23

### Abbreviations

<b>ATE</b>	Acute Toxicity Estimate	<b>DSL</b>	Domestic Substances List
<b>K<sub>OW</sub></b>	Concentration in octanol phase / Concentration in aqueous phase	<b>NDSL</b>	Non-Domestic Substances List
<b>LC<sub>50</sub></b>	Median Lethal Concentration	<b>TSCA</b>	Toxic Substances Control Act
<b>LD<sub>50</sub></b>	Median Lethal Dose	<b>IATA</b>	International Air Transport Association
<b>TDL<sub>o</sub></b>	Lowest Known Toxic Dose	<b>IMDG</b>	International Maritime Dangerous Goods
<b>EC<sub>50</sub></b>	Half Maximal Effective Concentration	<b>ADR</b>	Agreement concerning the International Carriage of Dangerous Goods by Road
<b>RTECS</b>	Registry of Toxic Effects of Chemical Substances		