



## MATERIAL SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Diclofenac sodium

**CAS#:** 15307-79-6

**TSCA:** TSCA 8(b) inventory: No products were found

**Synonym:** O-(2-(2,6-dichloro-phenyl)amino)phenylacetic acid, sodium salt

**Chemical Name:** 2-[(2,6-dichloro-phenyl)amino]phenyl] acetate

**Chemical Formula:** C<sub>14</sub>H<sub>10</sub>Cl<sub>2</sub>NO<sub>2</sub>Na

### SECTION 2 – HAZARDOUS IDENTIFICATION

**Potential Acute Health Effects:**

Very hazardous in case of skin contact (irritant), of ingestion. Hazardous in case of eye contact (irritant), of inhalation. Slightly hazardous in case of skin contact (sensitizer, permeator). Severe over-exposure can result in death.

**Potential Chronic Health Effects:**

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available.

Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

### SECTION 3 – COMPOSITION AND INGREDIENTS

Name	CAS#	% by weight
Diclofenac Sodium	15307-79-6	

**Toxicological Data on Ingredients:** ORAL (LD50: Acute: 53 mg/kg [Rat]. 95 mg/kg [Mousse]. 157 mg/kg[Rabbit].

### SECTION 4 – FIRST AID MEASURES

**Eye Contact:** Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention.

**Skin Contact:** After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases, and groin. Cold water may be used. Cover irritated skin with an emollient. If irritation persists, seek medical attention. Was contaminated clothing before reusing.

**Serious Skin Contact:** Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek medical attention.



**Inhalation:** Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

**Serious Inhalation:** Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt, or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

**Ingestion:** Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are damaged, a possible indication that the toxic material was ingested; the absence of such signs, however, is not conclusive. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.

## SECTION 5 – FIRE/EXPLOSION DATA AND MEASURES

**Product Flammability:** May be combustible at high temperature

**Auto-Ignition Temperature:** Not available

**Flash Points:** Not available

**Flammable Limits:** Not available

**Products of Combustion:** These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...), and halogenated compounds.

**Fire Hazards in Presence of Various Substances:** Not available.

**Small fire:** Use DRY chemical powder

**Large fire:** Use water, spray, fog or foam. Do not use water jet.

**Special Remarks on Fire Hazards:** Not available

**Special Remarks on Explosion Hazards:** Not available.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Small Spill:** Use appropriate tools to put the spilled solid in a convenient waste disposal container.

**Large Spill:** Use a shovel to put the material into a convenient waste disposal container.

## SECTION 7 – HANDLING AND STORAGE

**Precautions:** Keep locked up. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid Contact with skin and eyes

**Storage:** Keep container dry. Ground all equipment containing materials. Keep container tightly closed. Keep in a cool, well-ventilated place. Highly toxic or infectious materials should be stored in a separate locked safety storage cabinet or room.

## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

**Engineering Controls:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If use operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.



**Personal Protection:** Splash goggles. Lab coat. Dust respirator. Gloves.

**Personal Protection in Case of a Large Spill:**

Splash goggles. Full suit. Dust Respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

**Exposure Limits:** Not available.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Solid crystalline powder

**Odor:** Odorless

**Taste:** Not available

**Molecular Weight:** 318.13 g/mole

**Color:** White

**pH (1% soln/water):** Not available

**Boiling Point:** Decomposes

**Melting Point:** 284°C (543.2°F)

**Specific Gravity:** Not available.

**Vapor Pressure:** No applicable.

**Odor Threshold:** Not available.

**Water/Oil Dist. Coeff.:** Not available.

**Ionicity (in Water):** Not available.

**Dispersion Properties:** See solubility in water.

**Solubility:** Soluble in cold water

## SECTION 10 – STABILITY AND REACTIVITY

**Stability:** The product is stable.

**Instability Temperature:** Not available.

**Conditions of Instability:** Not available

**Incompatibility with various substances:** Not available

**Corrosivity:** Non-corrosive in presence of glass.

**Special Remarks on Reactivity:** Not available.

**Special Remarks on Corrosivity:** Not available

**Polymerization:** No.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**Routes of Entry:** Eye contact. Inhalation. Ingestion.

**Toxicity to Animals:** Acute oral toxicity (LD50): 53 mg/kg [Rat].

**Chronic Effects on Humans:** Not available

**Other Toxic Effects on Humans:** Very hazardous in case of skin contact (irritant), of ingestion.

Hazardous in case of inhalation. Slightly hazardous in case of skin contact (sensitizer, permeator).

**Special Remarks on Toxicity to Animals:** Not available.

**Special Remarks on Chronic Effects on Humans:** Not available.



**Special Remarks on other Toxic Effects on Humans:** Not available.

## **SECTION 12 – ECOLOGICAL INFORMATION**

**Ecotoxicity:** Not available.

**BOD5 and COD:** Not available.

**Products of Biodegradation:** Possible hazardous short term degradation products are not likely. However, long term degradation products may arise.

**Toxicity of the Products of Biodegradation:** The products of degradation are more toxic.

**Special Remarks on the Products of Biodegradation:** Not available.

## **SECTION 13 – DISPOSAL CONSIDERATIONS**

**Waste from residues / unused products:** Waste disposal must be in accordance with appropriate local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:** Do not re-use empty containers.

## **SECTION 14 – TRANSPORTATION INFORMATION**

**DOT Classification:** CLASS 6.1: Poisonous material

**Identification:** Toxic Solid, n.o.s. (Diclofenac Sodium): UN2811 PG: III

**Special Provisions for Transport:** Not available

## **SECTION 15 – OTHER REGULATORY INFORMATION**

**Federal and State Regulations:** TSCA 8(b) inventory: No products were found.

**Other Regulations:** OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

**Other Classifications:**

**WHMIS (Canada):**

CLASS D-1B: Material causing immediate and serious toxic effects (TOXIC)

CLASS D-2B: Material causing other toxic effects (TOXIC).

**DSCL (EEC):**

R25- Toxic if swallowed

R36/38- Irritating to eyes and skin.

**HMIS (U.S.A.):**

**Health Hazard:** 3

**Fire Hazard:** 1

**Reactivity:** 0

**Personal Protection:** E