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Material Safety Data Sheet

Naproxen

Section 1: Chemical Product and Company Identification

Product Name: Naproxen

Catalog Codes: SLN2509

CAS#: 22204-53-1

RTECS: UF5275000

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

CI#: Not available.

Synonym: (S)-6-Methoxy-alpha-methyl-2-naphthaleneacetic acid;

L-(-)-6-methoxy-alpha-methyl-2-Naphthaleneacetic acid.

Chemical Name:2-Naphthaleneacetic acid, 6-methoxy-alpha-methyl, L-(-)-

Chemical Formula:C₁₄H₁₄O₃

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Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Naproxen	22204-53-1	100

Toxicological Data on Ingredients: Naproxen: ORAL (LD50): Acute: 248 mg/kg [Rat]. 360 mg/kg [Mouse].

Section 3: Hazards Identification

Potential Acute Health Effects:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

Slightly hazardous in case of skin contact (sensitizer). CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS:

Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, gastrointestinal tract. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: 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, CO₂).

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in

presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards:

When heated to decomposition it emits acrid smoke and irritating fumes. As with most organic solids, fire is possible at elevated temperatures

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. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Keep away from incompatibles such as oxidizing agents.

Storage:

Keep container tightly closed. Keep container in a cool, well-ventilated area. Air Sensitive Sensitive to light. Store in light-resistant containers.

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 user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. 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

Physical state and appearance: Solid. (Powdered solid. Crystalline powder.)

Odor: Practically Odorless.

Taste: Not available.

Molecular Weight: 230.26 g/mole

Color: White. Off-white.

pH (1% soln/water): Not applicable.

Boiling Point: Not available.

Melting Point: 154°C -158°C

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: soluble in water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials, light

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Sensitive to light.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals: Acute oral toxicity (LD50): 248 mg/kg [Rat].

Chronic Effects on Humans: May cause damage to the following organs: blood, kidneys, gastrointestinal tract.

Other Toxic Effects on Humans:

Hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant), of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May cause adverse reproductive effects and birth defects (teratogenic). May affect genetic material (mutagenic). Human: passes through the placenta.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: May cause eye irritation. Inhalation: May cause

respiratory tract irritation. Ingestion: Harmful if swallowed. Can cause gastrointestinal tract irritation with nausea, thirst, abdominal discomfort, cramps, constipation, heartburn, anorexia, colitis, flatulence. It may affect behavior and cause central nervous system effects such as headache, muscle weakness, dizziness or vertigo, drowsiness, lightheadness, malaise, insomnia, fatigue, sleep disorders, dream abnormalities, inability to concentrate mental depression, nervousness, seizures. May cause other adverse reactions such as sores, ulcers, or white spots on the lips or in the mouth, pruritus, skin eruptions, rash, ecchymoses, urticaria, sweating, photosensitive dermatitis, photosensitivity reactions resembling porphyria cutanea tarda and epidermolysis bullosa and purpura. tinnitus, edema, congestive heart failure, palpitations, dyspnea, visual and hearing disturbances, blood problems (thrombocytopenia, leukopenia, granulocytopenia, eosinophilia, agranulocytosis, aplastic anemia, hemolytic anemia). Allergic reactions to material may occur if inhaled, ingested or in contact with skin. Chronic Potential Health Effects: Ingestion: Prolonged or repeated ingestion may affect the kidneys (nephritis, impairment of renal function, dysuria, hematuria, renal papillary necrosis, renal failure, nephrotic syndrome), liver(hepatitis, jaundice), behavior/central nervous system (CNS effects similar to those for acute ingestion), blood (similar to acute ingestion). It may also reactivate latent peptic ulcers or may cause peptic ulcers in individuals with no previous history of ulcers. Rarely, hemorrhage and perforation of ulcers may occur. It may also affect metabolism and cause hyperkalemia. Anaphylactoid reactions may occur in both aspirin-sensitive individuals as in those without any known hypersensitivity. Medical Conditions Aggravated by Exposure: Hypersensitivity to material, allergies to aspirin or other nonsteroidal anti-inflammatory drugs, active alcoholism, blood disorders including hemophilia, liver or kidney impairment, stomatitis.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly 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 less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal :

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: No products were found.

Other Regulations:

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

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

DSCL (EEC):

R22- Harmful if swallowed. S36/37- Wear suitable protective clothing and gloves. S46- If swallowed, seek medical advice immediately and show this container or label.

HMIS (U.S.A.):

Health Hazard: 2

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 2

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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