SAFETY DATA SHEET

Zuclopenthixol
Revision date: 14-Feb-2025
Revision Number: 1.02

Section 1: Identification

1.1 Product Identification

- Product Name: Zuclopenthixol
- Product Number: Sigma-26050
- Brand: Sigma
- CAS Number: 53772-83-1
- EC Number: Not specified
- Molecular Formula: C22H25ClN2OS
- Molecular Weight: 401.00 g/mol
- Website: Sigma Chemical

1.2 Supplier Details

- Company Name: Sigma Chemical Co., Ltd.
- Address: Room 2-1-2301, Jiahe Xinxing, No.130, Shandong Road, Shibei District, Qingdao City, Shandong Province, China
- Phone Number: +8618661891880
- Email: chemweb3@foxmail.com
- Business Hours:
  - Monday to Friday: 9:00 AM - 6:00 PM
  - Saturday: 9:00 AM - 1:00 PM
  - Sunday: Closed

1.3 Emergency Contact Number

- Emergency Contact: +8618661891880

1.4 Recommended Use and Restrictions

- Recommended Use: For research and development purposes only. Not for use as a drug, household product, or other.

Section 2: Hazard Identification

2.1 GHS Classification

- Acute Toxicity:
  - Oral: Category 4, H302 (Harmful if swallowed)

2.2 GHS Label Elements

- Pictogram: Warning
- Signal Word: Warning
- Hazard Statements:
  - H302: Harmful if swallowed
- Precautionary Statements:
  - Prevention:
    - P264: Wash thoroughly after handling
    - P270: Do not eat, drink, or smoke when using this product
  - Response:
    - P301+P312+P330: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
  - Disposal:
    - P501: Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Physical and Chemical Hazards

- Physical and Chemical Hazards: Non-flammable. Ignition sources may release hazardous products.

2.4 Health Hazards

- Health Hazards:
  - H302: Harmful if swallowed

2.5 Environmental Hazards

- Environmental Hazards: No environmental hazards identified based on current information.

Section 3: Composition/Information on Ingredients

3.1 Substance

- Synonyms: Zuclopentixol, Zuclopenthixolum, Cisordinol, Acuphase, Clopixol
- Molecular Formula: C22H25ClN2OS
- Molecular Weight: 401.00 g/mol
- CAS Number: 53772-83-1
- EC Number: Not specified
- Hazardous Components:
  - Component: Zuclopenthixol
  - Classification:
    - Acute Toxicity: Category 4 (Oral), H302

Section 4: First Aid Measures

4.1 First Aid Measures

- Inhalation: Remove victim to fresh air. If feeling unwell, call a POISON CENTER/doctor.
- Skin Contact: Immediately wash with plenty of water for at least 15 minutes. Remove contaminated clothing and wash before reuse. Get medical attention if irritation persists.
- Eye Contact: Rinse immediately with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if eye irritation persists.
- Ingestion: Do NOT induce vomiting. Rinse mouth with water. Call a POISON CENTER/doctor if feeling unwell.

4.2 Most Important Symptoms and Effects

- Symptoms: No information available.

4.3 Immediate Medical Attention and Special Treatment

- Medical Treatment: Treat symptomatically.

Section 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable Extinguishing Agents: Use fire extinguishing methods suitable for surrounding environment. Solid water stream may be inefficient.

5.2 Specific Hazards Arising from the Chemical

- Hazardous Combustion Products: Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx), Nitrogen oxides (NOx), Hydrogen chloride (HCl)

5.3 Firefighting Precautions

- Protective Equipment: Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective clothing.

Section 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment, and Emergency Procedures

- Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Ground all equipment used when handling the product. Avoid contact with skin, eyes, or clothing. Remove all sources of ignition. Take precautionary measures against static discharge.
- Environmental Precautions: Prevent seepage into sewage systems, workpits, and surface or ground water.

6.2 Methods and Materials for Containment and Clean-Up

- Containment: For small leaks, absorb with inert absorbent material (e.g., sand, diatomite, acid binders, universal binders) or collect in a tightly sealable container. For large leaks, enclose with banks to prevent outflow and lead the leakage to a safe place for disposal.

6.3 Reference to Other Sections

- Other Sections: See Section 8 for personal protection equipment and Section 13 for disposal information.

Section 7: Handling and Storage

7.1 Handling Precautions

- Handling: Ensure adequate ventilation. Wear personal protective equipment/face protection. Use spark-proof tools and explosion-proof equipment. Keep away from open flames, hot surfaces, and sources of ignition. Avoid contact with skin, eyes, or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid ingestion and inhalation. Take precautionary measures against static discharge.

7.2 Storage Conditions

- Storage: Store in a dry, cool, and well-ventilated place. Keep container tightly closed. Keep away from heat, sparks, and flame. Store in a flammable area. Incompatible materials include strong oxidizing agents, strong acids, strong bases, strong reducing agents.

Section 8: Exposure Controls/Personal Protection

8.1 Control Parameters

- Exposure Limits: No occupational exposure limits established by regional regulatory authorities.

8.2 Exposure Controls

- Engineering Measures: Ensure adequate ventilation, especially in confined areas. Showers and eyewash stations recommended.
- Eye/Face Protection: Wear safety glasses with side shields (or goggles).
- Hand Protection: Wear protective Viton™ gloves compliant with EC Directive 89/686/EEC and EN374.
- Skin and Body Protection: Wear suitable protective clothing.
- Respiratory Protection: No protective equipment needed under normal conditions. If exposure limits exceeded or irritation experienced, use ventilation and evacuation.
- Environmental Exposure Controls: Do not allow into sewers, ground, or bodies of water.

Section 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties

- Appearance: Solid
- Physical State: Solid
- Colour: White to light yellow
- Odour: No information available
- Melting Point/Freezing Point: 82 - 84 °C
- Initial Boiling Point and Boiling Range: No data available
- Flammability: Non-flammable
- Flammability Limit in Air: No data available
- Flash Point: No data available
- Autoignition Temperature: No data available
- Decomposition Temperature: No data available
- pH: No data available
- Kinematic Viscosity: No data available
- Dynamic Viscosity: No data available
- Water Solubility: No data available
- Solubility(ies): Slightly soluble in chloroform, methanol
- Partition Coefficient (n-octanol/water): No data available
- Vapour Pressure: No data available
- Relative Density: No data available
- Bulk Density: No data available
- Liquid Density: No data available
- Relative Vapour Density: No data available
- Particle Characteristics: No data available

Section 10: Stability and Reactivity

10.1 Reactivity

- Reactivity: No information available.

10.2 Chemical Stability

- Chemical Stability: Stable under normal conditions.

10.3 Possibility of Hazardous Reactions

- Possibility of Hazardous Reactions: None under normal processing.

10.4 Conditions to Avoid

- Conditions to Avoid: None known based on information supplied.

10.5 Incompatible Materials

- Incompatible Materials: Strong oxidizing agents, strong acids, strong bases, strong reducing agents.

10.6 Hazardous Decomposition Products

- Hazardous Decomposition Products: Carbon monoxide (CO), Carbon dioxide (CO2), Sulfur oxides (SOx), Nitrogen oxides (NOx), Hydrogen chloride (HCl).

Section 11: Toxicological Information

11.1 Information on Likely Routes of Exposure

- Inhalation: Specific test data not available.
- Eye Contact: Specific test data not available.
- Skin Contact: Specific test data not available.
- Ingestion: Harmful if swallowed (based on components).

11.2 Symptoms Related to the Physical, Chemical, and Toxicological Characteristics

- Symptoms: No information available.

11.3 Acute Toxicity

- Acute Toxicity: No information available.

11.4 Delayed and Immediate Effects as well as Chronic Effects

- Skin Corrosion/Irritation: No information available.
- Serious Eye Damage/Eye Irritation: No information available.
- Respiratory or Skin Sensitisation: No information available.
- Germ Cell Mutagenicity: No information available.
- Carcinogenicity: No information available.
- Reproductive Toxicity: No information available.
- STOT - Single Exposure: No information available.
- STOT - Repeated Exposure: No information available.
- Aspiration Hazard: No information available.

Section 12: Ecological Information

12.1 Ecotoxicity

- Ecotoxicity: The environmental impact of this product has not been fully investigated.

12.2 Persistence and Degradability

- Persistence and Degradability: No information available.

12.3 Bioaccumulation

- Bioaccumulation: No information available.

12.4 Other Adverse Effects

- Other Adverse Effects: No information available.

Section 13: Disposal Considerations

13.1 Disposal Methods

- Waste from Residues/Unused Products: Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
- Contaminated Packaging: Do not reuse empty containers.

Section 14: Transport Information

- TDG: Not regulated
- DOT: Not regulated
- ICAO (air): Not regulated
- IATA: Not regulated
- IMDG: Not regulated

Section 15: Regulatory Information

15.1 Safety, Health, and Environmental Regulations/Legislation

- The Montreal Protocol on Substances that Deplete the Ozone Layer: Not applicable
- The Stockholm Convention on Persistent Organic Pollutants: Not applicable
- The Rotterdam Convention: Not applicable

15.2 International Inventories

- TSCA: Contact supplier for inventory compliance status.
- DSL/NDSL: Contact supplier for inventory compliance status.
- EINECS/ELINCS: Contact supplier for inventory compliance status.
- ENCS: Contact supplier for inventory compliance status.
- IECSC: Contact supplier for inventory compliance status.
- KECL: Contact supplier for inventory compliance status.
- PICCS: Contact supplier for inventory compliance status.
- AIIC: Contact supplier for inventory compliance status.
- NZIoC: Contact supplier for inventory compliance status.
- TCSI: Contact supplier for inventory compliance status.

Section 16: Other Information

16.1 Key or Legend to Abbreviations and Acronyms

- ACGIH: The American Conference of Governmental Industrial Hygienists
- ADN: European Agreement on International Transport of Dangerous Goods by Road
- ADR: Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)
- AIIC: Australian Inventory of Industrial Chemicals
- TSCA: United States Toxic Substances Control Act Section 8(b) Inventory
- DSL/NDSL: Canadian Domestic Substances List/Non-Domestic Substances List
- EINECS/ELINCS: European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- ENCS: Japan Existing and New Chemical Substances
- IECSC: China Inventory of Existing Chemical Substances
- KECL: Korean Existing and Evaluated Chemical Substances
- PICCS: Philippines Inventory of Chemicals and Chemical Substances
- NZIoC: New Zealand Inventory of Chemicals
- TCSI: Taiwan Chemical Substance Inventory