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1. Chemical Product

**Product Name:** Salicylic acid

**Chemical name:** Salicylic acid

**Synonyms:** 2-hydroxybenzoic acid

**Chemical Formula:** $C_7H_6O_3$

2. Composition and Information on Ingredients

**Composition:** Salicylic acid 100% by weight

**Toxicological Data on Ingredients:** Salicylic acid: ORAL (LD50): Acute: 891 mg/kg [Rat]. 80 mg/kg [Mouse]. 1300 mg/kg [Rabbit].

3. Hazards Identification

**Potential Acute Health Effects:** Hazardous in case of skin contact (irritant) eye contact (irritant), ingestion and inhalation (lung irritant). It is slightly hazardous in case of skin contact (permeator), and severe over-exposure can result in death.

**Potential Chronic Health Effects:**

*CARCINOGENIC EFFECTS:* N/A

*MUTAGENIC EFFECTS:* Mutagenic for bacteria and/or yeast.

*TERATOGENIC EFFECTS:* N/A

*DEVELOPMENTAL TOXICITY:* Classified Reproductive system/toxin/female, Development toxin [POSSIBLE]. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.
### 4. First Aid Measures

**General measures:** N/A

**Skin contact:** In case of contact, immediately flush skin with plenty of water and cover the irritated skin with an emollient. Remove contaminated clothing and shoes, wash clothing and thoroughly clean shoes before reuse. Seek medical attention.

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

**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. Cold water may be used. Get medical attention immediately.

**Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel and 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 indigestion:** N/A

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

**Serious inhalation:** N/A
## 5. Fire and Explosion Data

**Flammability of the Product:** May be combustible at high temperature.

**Auto-Ignition Temperature:** 545°C (1013°F)

**Flash points:** CLOSED CUP: 157°C (314.6°F)

**Flammable limits:** LOWER: 1.1%

**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: N/A
- Risks of explosion of the product in presence of static discharge: N/A

**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:** N/A

**Special Remarks on Explosion Hazards:** Dust-Air mixtures may pose an explosion hazard.
### 6. Accidental Release Measures

NB: Wear appropriate protective equipment/clothing including gloves before removing any spills.

**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 the mixture according to local and regional authority requirements.

**Large spill:** It is a poisonous solid and so stop the leak if there is no risk. Do not get water inside container and do not touch spilled material. Use water spray to reduce vapours and prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources and call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface and allow the substance to evacuate through the sanitary system.

### 7. Handling and Storage

**Precautions:** Keep locked up and away from heat or any other sources of ignition. Empty containers pose a fire risk and so evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest or breathe in the dust and 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 and keep away from incompatibles such as oxidizing agents, moisture.

**Storage:** LIGHT SENSITIVE and MOISTURE SENSITIVE. Store in light resistant containers keeping the container tightly closed in a cool, well-ventilated area. Do not store above 23°C (73.4°F).
8. Exposure Controls/Personal Protection

Airborne Exposure Limits: N/A

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: Splash goggles, lab coat, dust respirator, making sure to use an approved/certified respirator or equivalent, and gloves.

9. Physical and Chemical Properties

Physical state and appearance: White solid (Crystalline granules).
Odour: Odourless
Taste: Sweetish, afterwards acrid.
Molecular Weight: 138.12 g/mole
pH (1% solution/water): N/A
Boiling Point: Decomposition temperature: 211°C (411.8°F)
Melting Point: 159°C (318.2°F)
Critical Temperature: N/A
Specific Gravity (Water = 1): 1.443
Vapour Pressure (mmHg): Not applicable.
Vapour Density: 4.8 (Air = 1)
Volatile: N/A
Odour Threshold: N/A
Water/Oil Distribution Coefficient: The product is more soluble in oil; log(oil/water) = 2.3
Ionicity (in Water): N/A
Dispersion Properties: See solubility in water, acetone.
Solubility: Soluble in acetone. Partially soluble in cold water. Very slightly soluble in hot water.
10. Stability and Reactivity Data

**Stability:** The product is stable.
**Corrosivity:** Non-corrosive in presence of glass.
**Instability temperature:** N/A
**Conditions of Instability:** Excessive heat, excessive dust generation, incompatible materials and dust-air mixtures.
**Incompatibles:** Reactive with oxidizing agents, moisture.
**Polymerization:** Will not occur.
11. Toxicological Information

Toxicity to animals: WARNING: THE LC50 VALUES HEREUNDER ARE ESTIMATED ON THE BASIS OF A 4-HOUR EXPOSURE. Acute oral toxicity (LD50): 480 mg/kg [Mouse]. Acute toxicity of the dust (LC50): 900 mg/m3 1 hour [Rat].

Effects on humans: MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast. DEVELOPMENTAL TOXICITY: Classified Reproductive system/toxin/female, Development toxin [POSSIBLE].

Acute potential health effects:
- Skin: May be harmful through skin absorption, May cause skin irritation. May affect the cardiovascular system (increase in blood pressure), and metabolism (body temperature increase) if absorbed through skin.
- Eye: Causes eye irritation and temporary injury.
- Inhalation: Causes irritation of the respiratory system (coughing, difficult breathing), ringing in the ears, confusion, rapid pulse, headache, dizziness, nausea, and vomiting.
- Ingestion: May be harmful if swallowed in large amounts and causes irritation of the gastrointestinal tract (nausea, vomiting abdominal pains). It may affect behaviour (muscle weakness and general depressed activity, confusion). May cause ringing in the ears, rapid breathing, sweating, and possible kidney damage. Severe overexposure may result in central nervous system stimulation followed by depression.

Chronic potential health effects: Possible hypersensitization.

MUTAGENIC EFFECTS: N/A
TERATOGENIC EFFECTS: N/A
DEVELOPMENTAL TOXICITY: N/A

Other information: Hazardous in case of skin contact (irritant), ingestion and inhalation (lung irritant), and is slightly hazardous in case of skin contact (permeator).

12. Ecological Information

Ecotoxicity: N/A
13. Disposal Considerations

**Waste Disposal:** Dispose of in a manner consistent with local regulations.

14. References


15. Appendices

N/A
### 16. Revision History

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<tr>
<th>Version Number</th>
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