Material Safety Data Sheet

Salicylic Acid

Section 1 - Product Identification

Synonyms : 2-hydroxybenzoic acid

Molecular Weight : 138.12 g/mol

Chemical Formula : $C_7H_{12}O_2$

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Section 2 – Composition/Information on Ingredients

Chemical Name	EC/CAS No	Purity, %
Salicylic Acid	200-712-3/69-72-7	>= 99

Section 3 – Hazards Identification

3.1 Classification of the substance or mixture

Acute toxicity, Oral (Category 4), H302

Serious eye damage/eye irritation (Category 1), H318

3.2 Label elements

Hazard Statements:

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statement(s)

Prevention

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.

Response

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

3.3 Other hazards

NIL

Section 4 – First-Aid Measures

4.1. Description of first aid mesaures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2. Most important symptoms and effects, both acute and delayed

Most important known symptoms and effects are described in the labelling (section 3.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

N.A.

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. Specific hazards arising from the chemical

Carbon Oxides

5.3. Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4. Further Information

Use water spray to cool unopened containers.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2. Environmental precautions

Do not let product enter drains.

6.3. Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2. Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 – Exposure Controls/Personal Protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

8.2. Appropriate engineering controls

Handle accordingly with good industrial hygiene and safety practices. Wash hands before breaks and immediately after handling the product.

8.3. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Full contact
Material: Nitrile-rubber
Minimum layer thickness: 0.11 mm
Break through time: 480 min
Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (US) or type ABEK (EN14387) respirator cartridges as a backup, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

8.4 Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance : White Crystalline solid
Odour : Odourless
Odour threshold : N.A.

pH @ 20°C : 2.4

Melting point : 158-161°C – lit.

Boiling point : 211°C – lit.

Flash point : 157°C – closed cup.

Evaporation rate : N.A.

Flammability : N.A.

Upper/lower flammability or explosive limits : LFL 1.1% (V)

Vapour pressure : N.A.

Vapour density :

Relative density : 1,440 g/cm^3

Solubility in water : N.A.

Partition coefficient: n-octanol/water : 2.25 at 25°C

Auto-ignition temperature : N.A.

Decomposition temperature : N.A.

Viscosity : N.A.

Explosive properties: N.A.

Oxidizing properties: N.A.

Section 10 – Stability and Reactivity

10.1. Reactivity

N.A.

10.2. Chemical stability

Stable under recommended storage conditions

10.3. Possibility of hazardous reactions

N.A.

10.4. Conditions to avoid:

Light

10.5. Incompatible materials

Strong oxidizing agents, strong bases, Iodine, Iron and iron salts

10.6. Hazardous decomposition products

Hazardous decomposition products formed under fire conditions – carbon oxides

In the event of fire, see section 5.

Other decomposition products – No data available.

Section 11 – Toxicological Information

Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - male - 891 mg/kg (Salicylic acid) (OECD Test Guideline 401) Remarks: Behavioral:Muscle weakness. LC50 Inhalation - Rat - 1 h - > 900 mg/m³ (Salicylic acid) LD50 Dermal - Rat - male and female - > 2.000 mg/kg (Salicylic acid) (OECD Test Guideline 402)

Skin corrosion/irritation

Skin – Rabbit (Salicylic acid), Result: No skin irritation - 4 h (OECD Test Guideline 404)

Serious eye damage/eye irritation

Eyes – Rabbit (Salicylic acid), Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Skin – Mouse (Salicylic acid), Result: Does not cause skin sensitisation.

Germ cell mutagenicity

Mouse (Salicylic acid)
lymphocyte
Result: negative
OECD Test Guideline 475 (Salicylic acid)
Mouse - male
Result: negative

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available (Salicylic acid)

Specific target organ toxicity - single exposure

No data available (Salicylic acid)

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available (Salicylic acid)

Additional Information

RTECS: VO0525000

Cough, Shortness of breath, Headache, Nausea, Vomiting (Salicylic acid)

Mild chronic salicylate intoxication is termed salicylism. Symptoms include in hearing, dimness of vision, mental confusion, lassitude, drowsiness and occasionally diarrhoea. A more severe degree of salicylate intoxication is (including generalized convulsions and coma), skin eruptions, and marked (Salicylic acid).

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated (Salicylic acid).

Section 12 – Ecological Information

12.1.Toxicity

Toxicity to fish EC50 - Lepomis macrochirus - > 500 mg/l - 48 h (Salicylic acid)

Toxicity to daphnia and other aquatic invertebrates Immobilization EC50 - Daphnia magna (Water flea) - 870 mg/l - 48 h (Salicylic acid) (OECD Test Guideline 202)

Toxicity to algae Growth inhibition EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - > 100 mg/l - 72 h (Salicylic acid) (OECD Test Guideline 201)

12.2. Persistence and degradability

Biodegradability aerobic - Exposure time 4 days (Salicylic acid), Result: > 90 % - Inherently biodegradable.

12.3. Bioaccumulative potential

N.A

12.4. Mobility in soil

N.A

12.5. Other adverse effects

Section 13 – Disposal Considerations

13.1. Disposal methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14 – Transport Information

14.1. UN number : N.A

14.2. UN proper shipping name : Not dangerous goods

14.3. Transport of hazard classes : N.A

14.4. Packing group : N.A

14.5. Environmental hazards : ADR/RID: no, IMDG Marine pollutant: no, IATA-DGR: no

14.6. Special precautions for user : N.A

14.7. Incompatible materials: N.A

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations for the substance/mixture

N.A

Section 16 : Additional Information

16.1. Full text of H-Statements referred to

H302 Harmful if swallowed.

H318 Causes serious eye damage.

16.2. Disclaimer of Liability

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