Salicylic acid
MSDS# 20315

Section 1 - Chemical Product and Company Identification

MSDS Name: Salicylic acid
Catalog Numbers:
14770-0010, 38573-0000, 41922-0020, 41922-0025, 41922-5000, BP/S120,
Synonyms: o-Hydroxybenzoic acid; 2-Hydroxybenzoic acid.
Company Identification: Fisher Scientific UK
Bishop Meadow Road, Loughborough
Leics. LE11 5RG
For information in Europe, call: (01509) 231166
Emergency Number, Europe: 01509 231166

Section 2 - Composition, Information on Ingredients

CAS#: 69-72-7
Chemical Name: Salicylic acid
%: >99
EINECS#: 200-712-3

Hazard Symbols:
XN
Risk Phrases:
22 37/38 41

Section 3 - Hazards Identification

EMERGENCY OVERVIEW
Harmful if swallowed. Irritating to respiratory system and skin.
Risk of serious damage to eyes. Light sensitive.
Potential Health Effects
Eye: Causes severe eye irritation. May result in corneal injury.
Skin: Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. If absorbed, may cause symptoms similar to those for ingestion. May cause skin rash and eruptions.
Ingestion: Causes gastrointestinal irritation with nausea, vomiting and diarrhea. May cause "salicylism"; characterized by headache, dizziness, ringing in the ears, hearing difficulty, visual disturbances, mental confusion, drowsiness, sweating, thirst, hyperventilation, nausea, vomiting and diarrhea. Severe salicylate intoxication may cause central nervous system disturbances such as convulsions and coma, skin eruptions, and alteration in the acid-base balance.
Inhalation: Causes irritation of the mucous membrane and upper respiratory tract.
Chronic: May cause reproductive and fetal effects. Laboratory experiments have resulted in mutagenic effects. May cause salicylism with effects similar to those of skin absorption. May cause damage to the kidneys.
and pancreas.

Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Call a poison control center. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician: Follow with gastric lavage with activated charcoal. If available, administer ferric hexacyanoferrate as a gastrointestinal trapping agent. Persons with pre-existing skin disorders, eye problems, or impaired kidney function may be more susceptible to the effects of this substance.

Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media: For small fires, use dry chemical, carbon dioxide, water spray or alcohol-resistant foam. Water or foam may cause frothing. Use agent most appropriate to extinguish fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Remove all sources of ignition. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use only in a well-ventilated area. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

Storage: Keep away from sources of ignition. Do not store in direct sunlight. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.
Section 8 - Exposure Controls, Personal Protection

Engineering Controls:
Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Exposure Limits
CAS# 69-72-7:

Personal Protective Equipment

Eyes:
Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin:
Wear appropriate protective gloves to prevent skin exposure.

Clothing:
Wear appropriate protective clothing to prevent skin exposure.

Respirators:
A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Crystalline powder
Color: white
Odor: odorless - slight phenolic odor
pH: 2.4
Vapor Pressure: 0.000082 mm Hg
Viscosity: Not available
Boiling Point: 211 deg C @ 20.00mm Hg (411.80 F)
Freezing/Melting Point: 158 - 160 deg C
Autoignition Temperature: 535 deg C (995.00 deg F)
Flash Point: 157 deg C (314.60 deg F)
Explosion Limits: Lower:1.1 % @ 392F
Explosion Limits: Upper: Not available
Decomposition Temperature: Not available
Solubility in water: Soluble
Specific Gravity/Density: 1.4400g/cm3
Molecular Formula: C7H6O3
Molecular Weight: 138.12

Section 10 - Stability and Reactivity

Chemical Stability:

Conditions to Avoid:
High temperatures, incompatible materials, light, moisture, strong oxidants.

Incompatibilities with Other Materials
Oxidizing agents, lead acetate, iron salts, alkalis, iodine, spirit nitrous ether.

Hazardous Decomposition Products
Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.
Hazardous Polymerization
Will not occur.

Section 11 - Toxicological Information

RTECS#: 
CAS# 69-72-7: VO0525000
LD50/LC50:
CAS# 69-72-7: Draize test, rabbit, eye: 100 mg Severe;
Draize test, rabbit, skin: 500 mg/24H Mild; Inhalation, rat: LC50
= >900 mg/m^3/1H; Oral, mouse: LD50 = 480 mg/kg; Oral, rabbit:
LD50 = 1300 mg/kg; Oral, rat: LD50 = 891 mg/kg; Skin, rabbit:
LD50 = >10 gm/kg; Skin, rat: LD50 = >2 gm/kg.;
Carcinogenicity:
Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.
Other:
Standard Draize Test: Administration onto the skin (rabbit) = 500
mg/24Hr (Mild). Standard Draize Test: Administration into the eye
(rabbit) = 100 mg (Severe).

Section 12 - Ecological Information

Ecotoxicity:
Bacteria: Phytobacterium phosphoreum: EC50 = 214 mg/L; 5 min;
Microtox test
Other:
Dangerous to aquatic life in high concentrations. Adsorption,
vaporization and bioconcentration are not expected to be
important environmental fate processes. Biodegradation is expected to be the
dominant removal mechanism from soil and water. It may also undergo

Section 13 - Disposal Considerations
Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

IATA
Shipping Name: Not regulated.
Hazard Class: 
UN Number: 
Packing Group: 

IMO
Shipping Name: Not regulated.
Hazard Class: 
UN Number: 
Packing Group: 

RID/ADR
Shipping Name: Not regulated.
Hazard Class: 
UN Number: 
Packing Group: 

Section 15 - Regulatory Information

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols: XN
Risk Phrases:
R 22 Harmful if swallowed.
R 37/38 Irritating to respiratory system and skin.
R 41 Risk of serious damage to eyes.
Safety Phrases:
S 26 In case of contact with eyes, rinse immediately
with plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)
CAS# 69-72-7: 1

Canada
CAS# 69-72-7 is listed on Canada's DSL List

US Federal
TSCA
CAS# 69-72-7 is listed on the TSCA Inventory.

Section 16 – Other Information

MSDS Creation Date:
6/10/1999
Revision #3 Date
10/26/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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