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**** MATERIAL SAFETY DATA SHEET ****

Salicylic Acid 20315

**** SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ****

MSDS Name: Salicylic Acid

Catalog Numbers: S78056, 578056-1, A275, A275-12, A275-212, A275-500, A275250LB, A277 500, A277-500, A277500, S780561, SEA277100LB

Synonyms: Benzoic acid, 2-hydroxy-; o-Hydroxybenzoic acid; 2-Hydroxybenzoic acid; Orthohydroxybenzoic acid Company Identification: Fisher Scientific

Company Identification: Fisher Scientific
1 Reagent Lane
1 Reagent Lane
Fairlawn, NJ 07410
For information, call: 201-796-7100
Emergency Number: 201-796-7100
For CHEMTREC assistance, call: 800-424-9300
For International CHEMTREC assistance, call: 703-527-3887

**** SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS ****

------EINECS# CAS# Chemical Name ca. 100 200-712-3

69-72-7 Salicylic acid Hazard Symbols: XN Risk Phrases: 22 36/38

**** SECTION 3 - HAZARDS IDENTIFICATION ****

EMERGENCY OVERVIEW

Appearance: white.
Warning! Light sensitive. Moisture sensitive. May be harmful if swallowed. May cause central nervous system effects. Contact with skin causes irritation and possible burns, especially if the skin is wet or moist. Causes severe eye irritation. Causes digestive and respiratory tract irritation. May cause reproductive and fetal Target Organs: Kidneys, central nervous system, pancreas.

Potential Health Effects

Eye: Causes severe eye irritation. May result in corneal injury.

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.

estion:
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. May be harmful if swallowed. 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 pancrease.

**** SECTION 4 - FIRST AID MEASURES ****

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

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

Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water.

Never give anything by mouth to an unconscious person. Get medical aid. Induce vomiting by giving one teaspoon of Syrup of Ipecac.

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

Follow with gastric lavage with activated charcoal. If available,

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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:

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 $\mathbf{8}$.

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.

lage. 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

OSHA - Final PELs ACGIH NIOSH Chemical Name none listed none listed Salicylic acid none listed

OSHA Vacated PELs:

Salicylic acid: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment

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.

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 a respirator's use.

**** SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ****

Physical State: Crystalline powder

Appearance: Odor:

odorless - slight phenolic odor

pH: Vapor Pressure: Vapor Density: Evaporation Rate:

No data Negligible Not available. 211 deg C @ 20.00mm Hg 158 - 160 deg C

Viscosity: Boiling Point: Freezing/Melting Point:

0.000082 mm Hg

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Autoignition Temperature: 535 deg C ( 995.00 deg F)
Flash Point: 157 deg C ( 314.60 deg F)
NFPA Rating: (est.) Health: 0; Flammability: 1; Reactivity: 0
Explosion Limits, Lower: 1.1 % @ 392F
NFPA Rating:
Explosion Limits, Lower: 1.1 % @ 39.
Unper: Not available.
Upper: Not Decomposition Temperature:
Solubility: S
Specific Gravity/Density:
                                             Soluble.
                                                  1.4400g/cm3
C7H6O3
Molecular Formula:
Molecular Weight:
                                                    138.12
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**** SECTION 10 - STABILITY AND REACTIVITY ****

Chemical Stability: Stable under normal temperatures and pressures. Moisture sensitive. Light sensitive. Darkens on exposure to light. 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: Oral, mouse: LD50 = 480 mg/kg; Oral, rabbit: LD50 = 1300 mg/kg; Oral, rat: LD50 = 891 mg/kg. Carcinogenicity: Salicylic acid Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA Epidemiology: No information available.

No information available.

Teratogenicity:
Oral, rat: TDLo = 1050 mg/kg (female 8-14 day(s) after conception)
Specific Developmental Abnormalities - Central Nervous System and craniofacial (including nose and tongue) and musculoskeletal system.; Oral, rat: TDLo = 350 mg/kg (female 8-14 day(s) after conception) Effects on Embryo or Fetus - extra-embryonic structures (e.g., placenta, umbilical cord).; Oral, mouse: TDLo = 1 gm/kg (female 17 day(s) after conception) Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants) and fetotoxicity (except death, e.g., stunted fetus).

Reproductive Effects:
Oral, rat: TDLo = 1050 mg/kg (female 8-14 day(s) after conception)
Maternal Effects - uterus, cervix, vagina and Fertility - post-implantation mortality (e.g. dead and/or resorbed implants per total number of implants) and litter size (e.g. # fetuses per litter; measured before birth); Oral, rat: TDLo = 40 mg/kg (female 20-21 day(s) after conception) Maternal Effects - parturition.

Neurotoxicity: No information available.

Mutagenicity:

Mutation in Microorganisms: Saccharomyces cerevisiae = 1 mmol/L/3H.; DNA Inhibition: Oral, mouse = 100 mg/kg.

Other Studies:

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:

Adsorption, volatilization 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 photochemical degradation in sunlit environmental

Bacteria: Phytobacterium phosphoreum: EC50 = 214 mg/L; 5 min; Microtox Environmental Fate:

In air, it is expected to exist in both the vapor and particulate phase. Vapor phase reaction with photochemically produced hydroxyl radicals may be important (estimated half-life of 1.2 days). Removal by wet and dry deposition can also occur. BOD = 141%, 5 days.

Rapidly degrades to phenol when heated

Other: Dangerous to aquatic life in high concentrations.

**** SECTION 13 - DISPOSAL CONSIDERATIONS ****

Dispose of in a manner consistent with federal, state, and local regulations. RCRA P-Series: None listed.

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INDEX: D00269285 CAT NO: A277500 PO NBR: 00001 RCRA U-Series: None listed. **** SECTION 14 - TRANSPORT INFORMATION **** No information available Canadian TDG No information available **** SECTION 15 - REGULATORY INFORMATION **** US FEDERAL TSCA CAS# 69-72-7 is listed on the TSCA inventory. Health & Safety Reporting List None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules None of the chemicals in this product are under a Chemical Test Rule. Section 12b

None of the chemicals are listed under TSCA Section 12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

Section 302 (RQ)

None of the chemicals in this material have an RQ.
Section 302 (TPQ)

None of the chemicals in this product have a TPO

SARA Codes CAS # 69-72-7: acute, chronic. Section 313

No chemicals are reportable under Section 313.

Clean Air Act:
This material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.
Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority

Pollutants under the CWA None of the chemicals in this product are listed as Toxic Pollutants

under the CWA.

None of the chemicals in this product are considered highly hazardous by OSHA

Salicylic acid is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level:

None of the chemicals in this product are listed.
European/International Regulations
European Labeling in Accordance with EC Directives

Hazard Symbols: XN
Risk Phrases:

R 22 Harmful if swallowed. R 36/38 Irritating to eyes and skin. Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 28 After contact with skin, wash immediately with J 20 After contact with skin, w plenty of soap and water. S 39 Wear eye/face protection. CAS# 69-72-7: 1

Canada

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

This product has a WHMIS classification of D2B.

CAS# 69-72-7 is not listed on Canada's Ingredient Disclosure List.

**** SECTION 16 - ADDITIONAL INFORMATION ****

MSDS Creation Date: 6/10/1999 Revision #0 Date: Original.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 way 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.