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Material Safety Data Sheet

Carbenicillin  
 MSDS# 91570

Section 1 - Chemical Product and Company Identification

MSDS Name: Carbenicillin  
 Catalog Numbers: BP2648-1, BP2648-250, BP2648-5  
 Synonyms: Disodium Carbenicillin; Disodium Alpha-Carboxybenzylpenicillin; Fugacillin.  
 Company Identification: Fisher Scientific  
 One Reagent Lane  
 Fair Lawn, NJ 07410

For information in the US, call:  
 201-796-7100  
 Emergency Number US: 201-796-7100  
 CHEMTREC Phone Number, US:  
 800-424-9300

Section 2 - Composition, Information on Ingredients

CAS#: 4800-94-6  
 Chemical Name: Carbenicillin  
 %: ca 100  
 EINECS#: 225-360-8

Hazard Symbols:  
 None listed  
 Risk Phrases:  
 None listed

Section 3 - Hazards Identification  
 EMERGENCY OVERVIEW

Caution! This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. May cause respiratory and digestive tract irritation. Good laboratory procedures are recommended when handling this compound.  
 Target Organs: No data found.  
 Potential Health Effects

Eye: May cause eye irritation.  
 Skin: May cause skin irritation.  
 Ingestion: May cause irritation of the digestive tract. Low hazard for usual industrial handling.  
 Inhalation: May cause respiratory tract irritation. Low hazard for usual industrial handling.  
 Chronic: No information found.

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.  
 Skin: Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.  
 Ingestion: Never give anything by mouth to an unconscious person. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water. Wash mouth out with water. Get medical aid if irritation or symptoms occur.  
 Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to Physician:

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. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.  
 Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.  
 Autoignition Temperature: Not applicable.  
 Flash Point: Not applicable.  
 Explosion Limits: Lower: Not available  
 Explosion Limits: Upper: Not available  
 NFPA Rating:  
 health: 1; flammability: 0; instability: 0

Section 6 - Accidental Release Measures

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

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Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section. Avoid generating dusty conditions. Provide ventilation.

Section 7 - Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation. Use with adequate ventilation.

Storage: Keep refrigerated. (Store below 4°C/39°F.)

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 ventilation to keep airborne concentrations low.

Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Carbenicillin	none listed	none listed	none listed

OSHA Vacated PELs:  
 Carbenicillin:  
 None listed

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. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State: Solid  
 Color: almost white  
 Odor: Not available  
 pH: Not available  
 Vapor Pressure: Not available  
 Vapor Density: Not available  
 Evaporation Rate: Not available  
 Viscosity: Not available  
 Boiling Point: Not available  
 Freezing/Melting Point: Not available  
 Decomposition Temperature: Not available  
 Solubility in water: Not available  
 Specific Gravity/Density: C17H16N2Na2O6S  
 Molecular Formula: 422.1614  
 Molecular Weight:

Section 10 - Stability and Reactivity

Chemical Stability: Stable at room temperature in closed containers under normal storage and handling conditions.  
 Conditions to Avoid: Incompatible materials, dust generation, excess heat.  
 Incompatibilities with Other Materials: Strong oxidizing agents.  
 Hazardous Decomposition Products: Nitrogen oxides, carbon monoxide, oxides of sulfur, irritating and toxic fumes and gases, carbon dioxide, sodium oxide.  
 Hazardous Polymerization: Has not been reported.

Section 11 - Toxicological Information

RTECS#:  
 CAS# 4800-94-6: ON9105000  
 LD50/LC50:  
 RTECS: CAS# 4800-94-6: Oral, mouse: LD50 = >12 gm/kg;  
 Oral, rat: LD50 = >10 gm/kg;  
 Carcinogenicity:  
 Carbenicillin -  
 Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.  
 Epidemiology:  
 No information found  
 Teratogenicity:

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No information found  
 Reproductive:  
 No information found  
 Neurotoxicity:  
 No information found  
 Mutagenicity:  
 No information found  
 Other:

See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Not available

Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste.

US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

Section 14 - Transport Information

US DOT

Shipping Name:  
 Hazard Class:  
 UN Number:  
 Packing Group:

Canada TDG

Shipping Name: Not available  
 Hazard Class:  
 UN Number:  
 Packing Group:

Section 15 - Regulatory Information

US Federal

TSCA

CAS# 4800-94-6 is not listed on the TSCA Inventory. It is for research and development use only.

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.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

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 depleters.

This material does not contain any Class 2 Ozone depleters.

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.

OSHA:

STATE Carbenicillin is not present on state lists from CA, PA, MN, MA, FL,

or NJ.

California Prop 65

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: Not available

Risk Phrases:

Safety Phrases:

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek

medical advice immediately (show the label where

possible).

WGK (Water Danger/Protection)

Canada CAS# 4800-94-6: Not available

Canadian WHMIS Classifications:

Not available

This product has been classified in accordance with the hazard

criteria of the Controlled Products Regulations and the MSDS

contains all of the information required by those regulations.

CAS# 4800-94-6 is not listed on Canada's Ingredient

Disclosure List.

Section 16 - Other Information

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MSDS Creation Date:

6/14/2000

Revision #5 Date

10/03/2005

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