

Material Safety Data Sheet Sodium sulfate decahydrate

MSDS# 57150

Section 1 - Chemical Product and Company Identification

MSDS Name: Sodium sulfate decahydrate

Catalog
Numbers:

61161-5000, S414-12, S414-212, S414-250LB, S414-500, S419-500

Synonyms:

Disodium sulfate decahydrate; Disodium sulphate decahydrate; Sulfuric acid, disodium salt, decahydrate;

Glauber's salt.

Fisher Scientific
Company Identification:
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

Risk Phrases:

CAS#: 7727-73-3

Chemical Name: Sodium sulfate decahydrate

%: 99+

EINECS#: unlisted

Hazard Symbols:

Text for R-phrases: see Section 16

Hazard Symbols: None listed Risk Phrases: None listed

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Caution! The toxicological properties of this material have not been fully investigated. May cause eye, skin, and respiratory tract irritation. Target Organs: None known.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic: No information found.

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. If irritation develops, get medical aid.

Skin: Immediately 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.

Ingestion: Do not induce vomiting. 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

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH General

(approved or equivalent), and full protective gear. Substance is noncombustible. Information:

Extinguishing Media:

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Autoignition Not available.

Flash Point: Not available

Explosion Limits: Not available Lower:

Explosion Limits: Not available Upper:

NFPA Rating: health: 1; flammability: 0; instability: 1;

Section 6 - Accidental Release Measures

General

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

Spills/Leaks:

Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty

conditions. Provide ventilation. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and

clothing. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	++ OSHA - Final PELs
Sodium sulfate deca	none listed	none listed	none listed
Sodium sulfate anhy drous	none listed	none listed	 none listed

OSHA Vacated PELs: Sodium sulfate decahydrate: None listed Sodium sulfate anhydrous: None listed **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

Personal Protective Equipment

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face Eyes:

protection regulations in 29 CFR 1910.133 or European Standard EN166.

Wear appropriate protective gloves to prevent skin exposure. Skin:

Clothing: Wear appropriate protective clothing to prevent skin exposure.

A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or Respirators:

European Standard EN 149 must be followed whenever workplace conditions warrant respirator use.

Section 9 - Physical and Chemical Properties

Physical State: Solid

Color: white

Odor: odorless

pH: 6 - 7.5 (aq soln)

Vapor Pressure: Not available Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: Not available Boiling Point: Not available

Freezing/Melting Point: 32.4 deg C (90.32°F)

Decomposition Temperature: Not available

Solubility in water: Soluble Specific Gravity/Density: 1.46

Molecular Formula: Na2SO4.10H2O

Molecular Weight: 322.19

Section 10 - Stability and Reactivity

Chemical Stability: Readily effloresces (loses water molecules of hydration) on exposure to air.

Conditions to Avoid: Incompatible materials, dust generation, exposure to air.

Incompatibilities with Other Materials Aluminum.

Hazardous Decomposition Products Oxides of sulfur, sodium oxide.

Hazardous Polymerization Will not occur.

Section 11 - Toxicological Information

RTECS#: CAS# 7727-73-3: None listed

CAS# 7757-82-6: WE1650000

RTECS: Not available. RTECS:

LD50/LC50: **CAS# 7757-82-6:** Oral, mouse: LD50 = 5989 mg/kg;

Carcinogenicity: Sodium sulfate decahydrate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Sodium sulfate anhydrous - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

Section 12 - Ecological Information

Fish: Bluegill/Sunfish: LC50 = 12,750 ppm; 96 Hr; Static bioassay

Water flea Daphnia: LC50 = 4547 mg/L; 96 Hr; Unspecified

Ecotoxicity: Water fied Daphina: EC50 4347 fing/L, 76 fit, Onspecified Fish: Fathead Minnow: LC50 = 13,500-14,000 mg/L; 24 - 96 Hr; Unspecified

Fish: Mosquito Fish: LC50 = 17,500 mg/L; 96 Hr; Unspecified

Other: This chemical is not likely to bioconcentrate.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class: UN Number: Packing Group: Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class: UN Number: Packing Group:

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 7727-73-3: Not available

CAS# 7757-82-6: 0

Canada

CAS# 7757-82-6 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not controlled.

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# 7727-73-3 is not listed on Canada's Ingredient Disclosure List.

CAS# 7757-82-6 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 7727-73-3 is not on the TSCA Inventory because it is a hydrate. It is considered to be listed if the CAS number for the anhydrous form in on the Inventory (40CFR720.3(u)(2)).

CAS# 7757-82-6 is listed on the TSCA Inventory.

Section 16 - Other Information MSDS Creation Date: 11/20/1998 Revision #8 Date 7/20/2009

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.
