

EMERGENCY TELEPHONE: CHEMTREC 1-800-424-9300

SECTION 1 - CHEMICAL PRODUCT IDENTIFICATION

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PRODUCT NAME: *Sodium Permanganate
DESCRIPTION: *40% minimum as NaMnO4

SECTION 2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>CHEMICAL NAME</u>	<u>%</u>	<u>TLV</u>	<u>CAS No.</u>
* Sodium Permanganate	40	.20mg Mn per cubic meter of air	*10101-50-5

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: *

EFFECTS OF OVEREXPOSURE - ACUTE

EYES: *Sodium Permanganate is damaging to eye tissue on contact. It may cause burns that result in damage to the eye.

SKIN: *Momentary contact of solution at room temp may be irritating to the skin, leaving brown stains.

INGESTION: *If swallowed, may cause burns to mucous membranes of the mouth, throat, esophagus, and stomach

INHALATION: *May cause irritation to the respiratory tract

EFFECTS OF OVEREXPOSURE - CHRONIC

*

PRIMARY ROUTE OF ENTRY: *

SECTION 4 - FIRST AID MEASURES

EYES: *Flush immediately with large amounts of water for at least 15 minutes. Seek medical attention immediately.

SKIN: *Wash contaminated area with water. Seek medical attention if irritation persists.

INGESTION: *If person is conscious, give large amounts of water or milk. Seek medical attention.

INHALATION: *Remove person from contaminated area to fresh air. Seek medical attention.

*PHYSICIANS NOTE: *Decomposition products are alkaline.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASHPOINT: *None

FLAMMABILITY: *Nonflammable

AUTOFLAMMABILITY: *None

EXPLOSIVE LIMITS:

LOWER: n/a UPPER: n/a

EXPLOSION HAZARD: *Explosive in contact with sulfuric acid or peroxides, or readily oxidizable substances

EXTINGUISHING MEDIA: Use large amounts of water. Dike to contain.

EXTINGUISHING MEDIA WHICH MUST NOT BE USED: dry chemicals, Foams

SPECIAL EXPOSURE HAZARDS IN FIRE: Keep containers cool by spraying with water if exposed to fire.

SPECIAL PROTECTIVE EQUIPMENT FOR A FIRE: Self-contained breathing apparatus should be worn.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

ENVIRONMENTAL PRECAUTIONS: *Contain spill by collecting the liquid in a pit or holding behind a dam. Dilute to approx 6% solution with water and then reduce with sodium thiosulfate, a bisulfite or ferrous salt solution.
METHODS FOR CLEANUP: *Flush with abundant water into the sewer, if permitted by federal, state, and local authorities. If not, collect and treat as above.

SECTION 7 - HANDLING AND STORAGE

HANDLING: *Wash hands thoroughly with soap and water after handling.
STORAGE: *Store in a cool, well-ventilated area. Segregate from acids, peroxides, Formaldehyde, and all combustible, organic or easily oxidized materials.

SECTION 8 - EXPOSURE CONTROL / PERSONAL PROTECTION

ENGINEERING CONTROLS: General ventilation is recommended. Eyewash and safety shower stations must be located in the immediate area.
EXPOSURE GUIDELINES: not established

PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY: NIOSH-approved self-contained breathing apparatus for exposure to levels above limits.
HAND: Rubber gloves and boots.
EYE: Chemical goggles which are splash and dust proof or face shield.
SKIN: If clothing is contaminated, wash skin and launder clothing.

NOTE: BEFORE EATING, DRINKING OR SMOKING, WASH FACE AND HANDS THOROUGHLY WITH SOAP AND WATER.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, COLOR AND ODOR: *Purple Solution
PH as is: *6-9
BOILING POINT: *>105 degrees C
FLASH POINT: *not determined
VAPOR PRESSURE: *760 mm @ 105 degrees C
SPECIFIC GRAVITY: *1.36-1.39
SOLUBILITY IN WATER: *Complete solubility in all proportions
VISCOSITY: *

SECTION 10 - STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION: Material is not known to polymerize.
CHEMICAL STABILITY: Under normal conditions, the material is stable.
CONDITIONS TO AVOID: Contact with incompatible materials or heat (135°C/275°F) could result in violent exothermic chemical reaction.
MATERIALS TO AVOID: Acids, peroxides, and all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders. With hydrochloric acid, chlorine gas is liberated.
HAZARDOUS DECOMPOSITION PRODUCTS: When involved in a fire, sodium permanganate may form corrosive fumes.

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LD₅₀ ORAL (rat) = x.x g/kg
IRRITANCY: *
SENSITIZATION: *
SUB-ACUTE, SUB-CHRONIC AND PROLONGED TOXICITY: * no information available
EMPIRICAL DATA ON EFFECTS ON HUMANS: * no information available

SECTION 12 - ECOLOGICAL INFORMATION

PERSISTENCE IN THE ENVIRONMENT:

BIOLOGICAL OXYGEN DEMAND:

CHEMICAL OXYGEN DEMAND:

AQUATIC TOXICITY

Daphnia magna

Fathead minnow

OTHER INFORMATION: * Discharge of this product must be in accordance with all federal, state, local or other applicable laws and regulations.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: When it becomes a waste, sodium permanganate is considered a D001 hazardous (ignitable) waste. For disposal of sodium permanganate solutions, follow procedures in Section 6 and deactivate the permanganate to insoluble manganese dioxide. Dispose of it in a permitted landfill. Contact F2 Industries, LLC for additional recommendations.

SECTION 14 - TRANSPORTATION INFORMATION

DOT SHIPPING NAME: 49 CFR172.101 Permanganates, inorganic, aqueous solution, n.o.s. (contains sodium permanganate)

UN Number: 49 CFR172.101....UN 3214

DOT HAZARD CLASS: 49 CFR172.101....5.1

PACKING GROUP: 49 CFR172.101....II

HAZARD CLASS: 49 CFR172.101....Oxidizer

SECTION 15 - REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA): All components of this product are listed in the Toxic Substances Control Act inventory.

COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): Reportable Quantity - * pounds (RCRA hazardous waste).

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA Title III) - Section 311 Hazard Categories:

Acute Health:	Yes
Chronic Health:	Yes
Fire:	Yes
Sudden Release of Pressure:	No
Reactive:	No

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA Title III) - Section 311: Components of this product subject to reporting: none

SECTION 16 - OTHER INFORMATION

NFPA 704 RATINGS:

HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the best opinion on the subject as of the date on this sheet. However, no warranty, guarantee or representation, expressed or implied, is made by F2 Industries, LLC, as to the correctness or sufficiency of this information or to the results to be obtained from the use thereof.

