

COYNE CHEMICAL

SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identity: Sodium Permanganate 10-20%

Recommended use of the chemical and restrictions on use:

Supplier: Coyne Chemical
3015 State Road
Croydon, PA 19021
Telephone: +1 (215) 785-3000

Emergency Phone: For Chemical Emergency
Spill, Leak, Fire, or Accident
Call **CHEMTREC** Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

SDS Date of Preparation: 5/3/17

2. HAZARDS IDENTIFICATION

GHS Classification:

Physical:	Health:	Environmental
Oxidizing Liquid Category 2	Eye Corrosion Category 1 Skin Corrosion Category 1B	Aquatic Acute Toxicity Category 2

GHS Label Elements:

Danger!



Statements of Hazard

H272 May intensify fire; oxidizer.
H314 Causes severe skin burns and eye damage.
H401 Toxic to aquatic life.

Precautionary Phrases

P210 Keep away from heat.
P220 Store away from clothing and combustible materials.
P221 Take any precaution to avoid mixing with combustibles materials.
P260 Do not breathe mist, vapors, or spray.
P264 Wash thoroughly after handling.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing, eye protections and face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

P310 Immediately call a POISON CENTER or doctor.

P363 Wash contaminated clothing before reuse.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P310 Immediately call a POISON CENTER or doctor.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P310 Immediately call a POISON CENTER or doctor.

P370+P378 In case of fire: Use large quantities of water to extinguish.

P391 Collect spillage.

P405 Store locked up.

P501 Dispose of contents and container in accordance with local and national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Water	7732-18-5	80-90%
Sodium Permanganate	10101-50-5	10-20%

The exact concentration is being withheld as a trade secret.

4. FIRST AID MEASURES

Eye: Immediately flush eyes with plenty of water for at least 20 minutes while holding the eyelids apart. Get immediate medical attention.

Skin: Immediately flush skin with plenty of water for 30 minutes while removing contaminated clothing and shoes. Get immediate medical attention. Launder clothing before re-use. (Discard contaminated shoes). Do not allow product to dry on clothing. Evaporation of water concentrates the oxidizer and increases the risk of fire.

Ingestion: Do NOT induce vomiting. If conscious, give one 8 ounce glass of water to dilute. Never give anything by mouth to an unconscious or convulsing person. Get immediate medical attention.

Inhalation: Immediately remove victim to fresh air. If breathing is difficult, oxygen should be administered by qualified personnel. If breathing has stopped, administer artificial respiration. Get immediate medical attention.

Most important Symptoms: May cause skin burns and severe eye damage. Inhalation of vapors or mists may cause mucous membrane and respiratory irritation and burns with possible pulmonary edema. May be harmful if swallowed. Prolonged overexposure may cause kidney, liver and nervous system damage.

Indication of immediate medical attention/special treatment: Immediate medical attention is required for all routes of exposures.

Decomposition products are alkaline. Brown stain formed around eyes is insoluble manganese dioxide.

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Use large quantities of water. Do not use dry chemical, carbon dioxide, halon or foams. Cool fire exposed container with water.

Specific hazards arising from the chemical: Oxidizer- increases the flammability of combustible or flammable materials or powdered metals. Drying of sodium permanganate solution on clothing or other combustible material may result in fire. DO NOT allow material to come into contact with incompatible materials. Decomposition will produce oxides of sodium and manganese.

Special Protective Equipment and Precautions for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray. Avoid releases to the environment.

Explosion Data (sensitivity to mechanical impact or static discharge): None known.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures: Evacuate spill area and keep unprotected personnel away. Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Ventilate area. Wear appropriate protective clothing. Keep away from heat, flames and high temperatures. Prevent contact of product with flammable or combustible material. Avoid releases to the environment.

Methods and Materials for Containment and Cleaning Up: Contain and recover liquid if possible or absorb with an inert, non-combustible material such as earth, dry sand or vermiculite. Do not use combustible absorbent such as sawdust. Wash spill site with water. Report releases as required by local, state and federal authorities.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Prevent contact with the eyes, skin and clothing. Do not breathe vapors or mists. Wear protective clothing and equipment. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities: Store in a cool, well-ventilated area away from incompatible materials (combustibles, reducing agents, strong bases, and organics). Do not store on wooden shelves or floors. Keep away from heat and sunlight. Storage temperature range: 0-135°C (32-275°F).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Sodium Permanganate (As Manganese and inorganic compounds, as Mn)	0.02 mg/m ³ (Respirable), 0.1 mg/m ³ (Inhalable) TWA ACGIH TLV 5 mg/m ³ Ceiling OSHA PEL
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Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposures below the occupational exposure limits.

Respiratory Protection: In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Wear impervious gloves such as rubber or nitrile to avoid skin contact. If needed suitable protective clothing such as aprons or coveralls should be worn. If protective clothing is not fire resistant, it must be washed thoroughly with water after it contacts sodium permanganate solution. If allowed to dry in the fabric, the chemical may cause fire, particularly if the clothing is soiled.

Eye Protection: Chemical safety goggles and faceshield should be worn.

Other: Impervious coveralls, apron and boots is required to prevent skin contact and contamination of personal clothing. A safety shower and eye wash should be available in the immediate work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Dark purple liquid with no odor.

Physical State: Liquid	Odor Threshold: Not available
Vapor Density: Not available	Initial Boiling Point/Range: 213.8°F (101°C)
Solubility In Water: Soluble	Vapor Pressure: 760 mmHg @ 221°F (105°C)
Relative Density: 1.2-1.3	Evaporation Rate: Not available
Melting/Freezing Point: 31°F (-0.5°C)	pH: 6-9
VOC Content: Not available	Octanol/Water Coefficient: Not available
Solubility: Soluble in water	Decomposition Temperature: Not available
Viscosity: Not available	Flammability (solid, gas): Not applicable
Flashpoint: None	Autoignition Temperature: None
Flammable Limits: LEL: Not applicable UEL: Not applicable	

10. STABILITY AND REACTIVITY

Reactivity: Strong oxidizer.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Oxidizers may react with many other materials, particularly flammable and combustible organic materials. Contact with hydrochloric acid may cause toxic chlorine gas to evolve.

Conditions to Avoid: Keep away from heat, flames and high temperatures.

Incompatible Materials: Avoid contact with acids, peroxides, combustible materials, and metal powders.

Hazardous Decomposition Products: When heated to decomposition emits toxic oxides of sodium and manganese.

11. TOXICOLOGICAL INFORMATION

HEALTH HAZARDS:

Eye: May cause severe irritation or burns with pain, tearing and swelling. Permanent damage may occur.

Skin: May cause irritation or burns with redness and pain. Staining of the skin may occur.

Ingestion: Ingestion may cause gastrointestinal irritation or burns, nausea, vomiting and sore throat. May cause perforation of the stomach or intestine. Liver and kidney damage may occur.

Inhalation: Inhalation of mists may cause irritation of the nose, throat and respiratory tract.

Sensitization: This material is not known to cause sensitization.

Chronic: Prolonged or repeated overexposure may cause anemia, pancreatitis, liver and kidney damage, adverse reproductive effects and neurologic effects such as tremor and parkinsonism.

Carcinogenicity: None of the components present are listed as a carcinogen or suspected carcinogen by IARC, NTP, ACGIH, or OSHA.

Germ Cell Mutagenicity: No information available.

Reproductive Toxicity: No information available.

Numerical Measures of Toxicity: No toxicity data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Sodium Permanganate: 96 hr LC50 Guppy – 0.47 mg/L, NOEC -0.35 mg/L; 48 hr EC50 Daphnia magna – 0.06 mg/L, NOEC – 0.01 mg/L

This product is classified as toxic to aquatic life. Releases to the environment should be avoided.

Persistence and Degradability: Biodegradability is not applicable to inorganic substances.

Bioaccumulative Potential: No data available

Mobility in Soil: No data available

Other Adverse Effects: No data available

13. DISPOSAL CONSIDERATIONS

Dispose in accordance with local and national environmental regulations.

14. TRANSPORT INFORMATION

DOT Hazardous Materials Description:

Proper Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)

UN Number: UN3214

Hazard Class/Packing Group: 5.1, PG II

Labels Required: Oxidizer

IMDG Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)

UN Number: UN3214

IMDG Hazard Class/Packing Group: 5.1, PG II

IMDG Hazard Labels Required: Oxidizer

IATA Shipping Name: Permanganates, inorganic, aqueous solutions n.o.s. (Sodium Permanganate)

UN Number: UN3214

IATA Hazard Class/Packing Group: 5.1, PG II

IATA Hazard Labels Required: Oxidizer

15. REGULATORY INFORMATION

CERCLA 103 Reportable Quantity: This product is not subject to CERCLA reporting requirements. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

Hazard Category for Section 311/312: See Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III

Section 313 Reporting requirements:

Sodium Permanganate	10101-50-5	10-20%
(Manganese Compounds)		

Section 302 Extremely Hazardous Substances (TPQ): None

INTERNATIONAL CHEMICAL INVENTORY STATUS:

Australia AICS: All the components are listed.

Canada DSL: All the components are listed.

China IECSC: All the components are listed.

European Union EINECS: All the components are listed.

Japan ENCS: All the components are listed.

Korea KECL: All the components are listed.

New Zealand: All the components are listed.

Philippines PICCS: All the components are listed.

United States TSCA: All the components are listed.

16. OTHER INFORMATION

NFPA Rating: Health = 3 Flammability = 0 Instability = 0 Special Hazards = OX

HMIS Rating: Health = 3 Flammability = 0 Physical Hazard = 2

Revision Summary:

7/2/13: New SDS

5/3/17: Updated SDS

NOTICE

This above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. Coyne Chemical shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.