



# SAFETY DATA SHEET

Version 2

## 1. Identification of the Substance / Preparation and of the Company / Undertaking

**Product Name:** Sodium Permanganate 20%  
**UN/ID No** UN3214  
**Synonyms:** Permanganic acid sodium salt  
**Recommended Use** Industrial, Manufacturing or Laboratory use.  
**Company Name:** Hawkins, Inc., 2381 Rosegate, Roseville, MN 55113 (612-331-6910)

**Emergency Telephone:**  
CHEMTREC (US): 1-800-424-9300

## 2. Hazards Identification

### GHS - Classification

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Category 1C
Serious eye damage/eye irritation	Category 1
Reproductive Toxicity:	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 1



**Signal Word:** Danger

### Hazard Statements:

- Harmful if swallowed
- Causes severe skin burns and eye damage
- Suspected of damaging fertility or the unborn child
- Causes damage to organs through prolonged or repeated exposure
- May cause respiratory irritation. May cause drowsiness or dizziness

### Physical Hazards

Oxidizing liquids	Category 2
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- May intensify fire; oxidizer



### Precautionary Statements:

## 36368 Sodium Permanganate 20%

- Obtain special instructions before use
- Keep away from heat/sparks/open flames/hot surfaces. — No smoking
- Keep/Store away from clothing/ combustible materials
- Take any precaution to avoid mixing with combustibles
- Do not breathe dust/fume/gas/mist/vapors/spray
- Avoid breathing dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Use only outdoors or in a well-ventilated area
- Wear protective gloves/protective clothing/eye protection/face protection
- Use personal protective equipment as required
- Store in a well-ventilated place. Keep container tightly closed
- Do not handle until all safety precautions have been read and understood
- Immediately call a POISON CENTER or doctor/physician
- Call a POISON CENTER or doctor if you feel unwell
- Get medical advice/attention if you feel unwell
- Rinse mouth
- Wash contaminated clothing before reuse
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- IF exposed or concerned: Get medical advice/attention
- In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish
- Store locked up
- Dispose of contents/container to industrial incineration plant
- Dispose of contents/ container to an approved waste disposal plant

### 3. Composition / Information on Ingredients

#### Hazardous

Chemical Name	CAS No	Weight-%	EC No
Sodium permanganate	10101-50-5	19.5-21	233-251-1

#### Non-Hazardous

Chemical Name	CAS No	Weight-%	EC No
Water	7732-18-5	Balance	231-791-2

### 4. First Aid Measures

#### Eye Contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists: Get medical advice/attention.

#### Skin Contact:

Obtain medical attention. Immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing before reuse.

#### Inhalation:

Move to fresh air. If breathing is difficult, give oxygen. Obtain medical attention. If not breathing, give artificial respiration.

#### Ingestion:

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Immediately give large quantities of water to drink. Get medical attention.

#### Note to Physicians:

Treat symptomatically.

### 5. Fire-fighting Measures

#### Flammable Properties:

Substance does not burn, Oxidizer

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### **Explosive Properties:**

Incomplete combustion and thermolysis may produce gases of different levels of toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. They can be highly dangerous if inhaled in a limited or a high concentration place. May be explosive in contact with acids, peroxides, all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders.

### **Suitable Extinguishing Media:**

Water, Dike fire-control water for later disposal. Incomplete combustion and thermolysis may produce gases of different levels of toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. They can be highly dangerous if inhaled in a limited or a high concentration place.

### **Unsuitable Extinguishing Media:**

No information available

### **Protective Equipment and Precautions for Firefighters:**

In the event of a fire, wear full protective clothing and MSHA/NIOSH (approved or equivalent) self-contained breathing apparatus with full facepiece operated in the pressure-demand or other positive pressure mode. Incomplete combustion and thermolysis may produce gases of different levels of toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. They can be highly dangerous if inhaled in a limited or a high concentration place. Cool containers with flooding quantities of water until well after fire is out.

## **6. Accidental Release Measures**

**Personal Precautions:** Use only with adequate ventilation.

**Environmental Precautions:** Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up:** Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).

**Other Information:** Not applicable.

## **7. Handling and Storage**

**Advice on Safe Handling:** Avoid contact with skin, eyes or clothing. Use only with adequate ventilation.

**Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from any source of heat or ignition. Keep away from incompatible substances.

**Incompatible Materials:** Acids; Oxidizing agents; Finely powdered metals

## **8. Exposure Controls / Personal Protection**

### **Exposure Guidelines**

Chemical Name	ACGIH TLV		OSHA PEL		Ontario TWA	
Sodium permanganate	TWA: 0.2 mg/m <sup>3</sup> Mn		5 mg/m <sup>3</sup> Ceiling 5 mg/m <sup>3</sup> Ceiling 5 mg/m <sup>3</sup> Ceiling		TWA: 0.2 mg/m <sup>3</sup>	
Chemical Name	European Union	China	Japan	Korea	Australia	Taiwan
Sodium permanganate		TWA: 0.15 mg/m <sup>3</sup> STEL: 0.45 mg/m <sup>3</sup>	TWA: 0.2 mg/m <sup>3</sup> ISHL/ACL: 0.2 mg/m <sup>3</sup>	TWA: 1 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	

**Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992)

**Engineering Controls:** Ensure adequate ventilation, especially in confined areas

### **Personal protective equipment (PPE)**

**Eye/Face Protection:** Tight sealing safety goggles.

**Body Protection:** Suitable protective clothing.

### **General Hygiene Considerations:**

Wash contaminated clothing before reuse.

## 9. Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

Physical State:	Liquid	Odor:	Odorless
Appearance:	No information available	Odor Threshold:	No information available
Color:	Dark violet		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
pH:	6.5		No information available
"Salt Out" Point (°F):			
Melting Point/Freezing Point:			
Boiling Point/Boiling Range:	> 101 °C / 214 °C		No information available
Flash Point:			No information available
Evaporation Rate (BuAc=1):	Same as water		No information available
Flammability (solid, gas):			No information available
Flammability Limits in Air:			No information available
Upper Flammability Limit:		Lower Flammability Limit:	
Vapor Pressure (mm Hg) :	760 mm @ 105 °C		
Vapor density (Air =1)			No information available
Specific Gravity (H <sub>2</sub> O=1):			No information available
Specific Gravity (2nd value):			No information available
Water Solubility:			No information available
Solubility(ies):			No information available
Partition Coefficient (n-octanol/water)			No information available
Autoignition Temperature:			No information available
Decomposition Temperature:			No information available
Kinematic Viscosity:			No information available
Dynamic Viscosity:			No information available
Oxidizing Properties:			No information available
Explosive Properties:			Incomplete combustion and thermolysis may produce gases of different levels of toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons , aldehydes and soot. They can be highly dangerous if inhaled in a limited or a high concentration place; May be explosive in contact with acids, peroxides, all combustible organic or readily oxidizable materials including inorganic oxidizable materials and metal powders

### 9.2. Other information

Softening Point:	No information available
Molecular Weight:	No information available
VOC Content(%):	No information available
Density:	1.16
Bulk Density:	No information available

## 10. Stability and Reactivity

Stability:	Stable under normal conditions of use and storage
Conditions to Avoid:	Incompatibles
Incompatible Materials:	Acids, Oxidizing agents, Finely powdered metals
Hazardous Decomposition Products:	Thermal oxidative decomposition produces toxic chlorine fumes and explosive hydrogen gas

Possibility of Hazardous Reactions: None under normal processing

## 11. Toxicological Information

### Product Information

## 36368 Sodium Permanganate 20%

**Acute Toxicity:** 0% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document

Chemical Name	Oral LD <sub>50</sub> :	Dermal LD <sub>50</sub> :	LC <sub>50</sub> (Lethal Concentration):
Water	90 mL/kg ( Rat )		

### Chronic Toxicity:

**Carcinogenicity:** This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP

**Target Organ Effects:** Kidney, Respiratory system, Central nervous system, Blood

## 12. Ecological Information

### Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

**Persistence and Degradability:** No information available.

**Bioaccumulation:** No information available.

**Mobility:** No information available.

## 13. Disposal Considerations

**Waste from Residues/Unused Products:** Disposal should be in accordance with applicable regional, national and local laws and regulations

## 14. Transport Information

### DOT

**Proper shipping name** PERMANGANATES, INORGANIC, AQUEOUS SOLUTIONS, N.O.S. (SODIUM PERMANGANATE)

**Hazard Class** 5.1

**UN/ID No** UN3214

**Packing Group** II

**Description** UN3214, PERMANGANATES, INORGANIC, AQUEOUS SOLUTION, N.O.S. (SODIUM PERMANGANATE), 5.1, PG II



## 15. Regulatory Information

### International Inventories

## 36368 Sodium Permanganate 20%

All of the components in the product are on the following Inventory lists: TSCA (United States);, Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL);, China (IECSC), ENCS (Japan);, Philippines (PICCS). This product contains a substance not listed on international inventories - it is for research and development use only.

AICS	Complies
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	-
IECSC	Complies
KECL	Complies
PICCS	Complies

Chemical Name	AICS	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS
Sodium permanganate	Listed	Listed	NDSL Listed	Present	Listed	-	(1)-1222 (1)-1219	Listed	KE-31574	Present
Water	Listed	Listed	Listed	-	Listed	-	-	Listed	KE-35400	Present

### Inventory Legend

AICS - Australian Inventory of Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

**RESTRICTIONS - REACH TITLE VII** No information available

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### US Federal Regulations

#### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Sodium permanganate	1.0

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive hazard	No

### U.S. State Right-to-Know Regulations

#### California Proposition 65:

This product does not contain any Proposition 65 chemicals

### 16. Other Information

National Fire Protection Association (NFPA) Ratings



NSF/ANSI 60 Certification



Certified to  
NSF/ANSI 60

**Maximum Use (mg/L unless otherwise indicated):** 176

**Prepared By:** HSE Department

**Issue Date:** No data available

**Revision Date:** 08-Apr-2016

**Revision Note:** Reviewed and Re-issued.

**Disclaimer:**

Please be advised that it is your responsibility to inform your employees of the hazards of this substance, to advise them of what these properties mean and be sure they understand exposure information. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication.

The information presented herein, while not guaranteed, was prepared by competent technical personnel and is true and accurate to the best of our knowledge. No warranty or guaranty, express or implied, is made regarding performance, stability, or otherwise. This information is not intended to be all-inclusive as to the manner and conditions of use, handling, and storage. Other factors may require additional safety or performance considerations. While our technical personnel will be happy to respond to questions regarding safe handling and use procedures, the handling and use remains the responsibility of the consumer. No suggestions are intended as, and should not be construed as, a recommendation to infringe on any existing patents or to violate any Federal, State, or local laws.

End of Safety Data Sheet

