

# SAFETY DATA SHEET

## 1. Identification

Product identifier: Sodium Persulfate

## Other means of identification **Product No.:** V035

## Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name:	Avantor Performance Materials, Inc.
Address:	3477 Corporate Parkway, Suite 200
	Center Valley, PA 18034
Telephone:	
	Customer Service: 855-282-6867
Fax:	
Contact Person: e-mail:	Environmental Health & Safety info@avantormaterials.com

## Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

## 2. Hazard(s) identification

## **Hazard Classification**

Physical Hazards	
Oxidizing solids	Category 3
Health Hazards	
Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3

## Label Elements

Hazard Symbol:



Signal Word:

Danger



Hazard Statement:	May intensify fire; oxidizer. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.
Precautionary Statement	
Prevention:	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. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. [In case of inadequate ventilation] wear respiratory protection.
Response:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. If skin irritation or rash occurs: Get medical advice/attention.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
Disposal:	Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
hazards which do not	None.

Other h result in GHS classification:

## 3. Composition/information on ingredients

## **Substances**

	ynonyms	number	,
PEROXYDISULFURIC ACID DISODIUM SALT		7775-27-1	60 - 100%

entrations a

## 4. First-aid measures

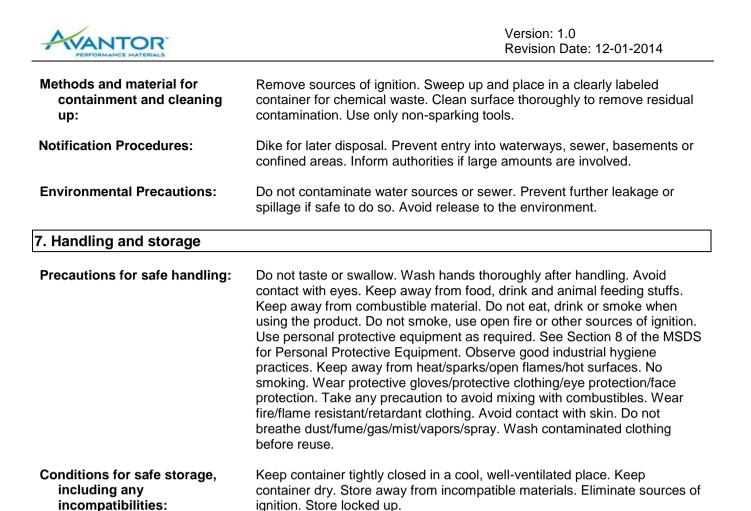
## **General information:**

Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. Ensure that emergency personnel are aware of the material involved, and take precautions to protect themselves.



Ingestion:	Rinse mouth. Get medical attention if symptoms occur. Do not induce vomiting without advice from poison control center. Never give liquid to an unconscious person.
Inhalation:	Move to fresh air. Get medical attention if symptoms persist. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes. IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes.
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation persists after washing.
Most important symptoms/effects	s, acute and delayed
Symptoms:	Irritating to eyes, respiratory system and skin.
Indication of immediate medical a	ttention and special treatment needed
Treatment:	Symptoms may be delayed. Treat symptomatically.
5. Fire-fighting measures	
General Fire Hazards:	In case of fire and/or explosion do not breathe fumes.
Suitable (and unsuitable) extingu	ishing media
Suitable extinguishing media:	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media:	DO NOT USE WATER.
Specific hazards arising from the chemical:	May intensify fire; oxidizer.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to flames with water until well after the fire is out. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
Special protective equipment for fire-fighters:	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
6. Accidental release measures	8

# Personal precautions,<br/>protective equipment and<br/>emergency procedures:Keep unauthorized personnel away. Ventilate closed spaces before<br/>entering them. Use personal protective equipment. See Section 8 of the<br/>MSDS for Personal Protective Equipment.



## 8. Exposure controls/personal protection

## **Control Parameters**

## **Occupational Exposure Limits**

Chemical Identity	Туре	Exposure Limit Values	Source
PEROXYDISULFURIC ACID DISODIUM SALT - as persulfate	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (2011)

#### Appropriate Engineering Controls

No data available.

## Individual protection measures, such as personal protective equipment

General information:Good general ventilation (typically 10 air changes per hour) should be used.<br/>Ventilation rates should be matched to conditions. If applicable, use<br/>process enclosures, local exhaust ventilation, or other engineering controls<br/>to maintain airborne levels below recommended exposure limits. If<br/>exposure limits have not been established, maintain airborne levels to an<br/>acceptable level. An eye wash and safety shower must be available in the<br/>immediate work area.Eye/face protection:Wear safety glasses with side shields (or goggles) and a face shield.Skin Protection<br/>Hand Protection:Chemical resistant glovesOther:Wear suitable protective clothing.



Respiratory Protection:	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Hygiene measures:	Provide eyewash station and safety shower. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Avoid contact with eyes, skin, and clothing.

## 9. Physical and chemical properties

## Appearance

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Physical state:	Solid
Form:	Powder.
Color:	White
Odor:	Odorless
Odor threshold:	No data available.
pH:	6
Melting point/freezing point:	180 °C
Initial boiling point and boiling range:	No data available.
Flash Point:	Not applicable
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Upper/lower limit on flammability or explo	osive limits
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Explosive limit - upper (%):	No data available.
Explosive limit - lower (%):	No data available.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	2.4
Solubility(ies)	
Solubility in water:	556 g/l (20 °C) Appreciable
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Other information	
Molecular weight:	238.1 g/mol (H2O8S2.2Na)
10. Stability and reactivity	
Reactivity: No dan	gerous reaction known under conditions of normal use.
Chamical Stability	

Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur.



Conditions to Avoid:	Heat, sparks, flames. Moisture. Shocks and physical damage. Contact with incompatible materials.
Incompatible Materials:	Reducing agents. Flammable/combustible material. Organic compounds. Aluminum. Sodium hydroxide. Powdered metal.
Hazardous Decomposition Products:	Oxides of sulfur.

## 11. Toxicological information

Information on likely routes of exposure Ingestion: Harmful if swallowed.		
Inhalation:	May be harmful if inhaled.	
Skin Contact:	Causes skin irritation.	
Eye contact:	Causes serious eye irritation.	
Information on toxicological effe	ects	
Acute toxicity (list all possible	e routes of exposure)	
Oral Product:	No data available.	
Dermal Product:	No data available.	
Inhalation Product:	No data available.	
Repeated Dose Toxicity Product:	No data available.	
Skin Corrosion/Irritation Product:	Causes skin irritation.	
Serious Eye Damage/Eye Irritat Product:	i <b>on</b> Causes serious eye irritation.	
Respiratory or Skin Sensitization		
Product:	May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.	
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.	
IARC Monographs on the Evaluation of Carcinogenic Risks to Humans: No carcinogenic components identified		
US. National Toxicology Program (NTP) Report on Carcinogens: No carcinogenic components identified		
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified		



Germ Cell Mutagenicity		
In vitro Product:	No mutagenic components identified	
In vivo Product:	No mutagenic components identified	
Reproductive Toxicity Product:	No components toxic to reproduction	
Specific Target Organ Toxicity - Single Exposure   Product: May cause respiratory irritation. May cause drowsiness or dizziness.		
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.	
Aspiration Hazard Product:	Not classified	
Other Effects:	None known.	

## 12. Ecological information

Acute hazards to the aquatic environment:

## **Ecotoxicity:**

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Fish Product:	No data available.
Specified substance(s): PEROXYDISULFURIC ACID DISODIUM SALT	LC 50 (Carp (Cyprinus carpio), 48 h): 1,667 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 48 h): 388 mg/l Mortality LC 50 (Guppy (Poecilia reticulata), 48 h): 631 mg/l Mortality
Aquatic Invertebrates Product:	No data available.
Specified substance(s): PEROXYDISULFURIC ACID DISODIUM SALT	LC 50 (Oligochaete family (Tubificidae), 48 h): 524 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 64.6 mg/l Mortality LC 50 (Cyclopoid copepod (Cyclops strenuus), 48 h): 649 mg/l Mortality
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.
Persistence and Degradability	

Biodegradation Product:	There are no data on the degradability of this product.
BOD/COD Ratio Product:	No data available.
SDS_US - SDS00000937	



CF)					
No data available on bioaccumulation.					
nol / water (log Kow)					
No data available.					
The product is water soluble and may spread in water systems.					
Contains a substance which causes risk of hazardous effects to the environment.					
Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.					
Since emptied containers retain product residue, follow label warnings even after container is emptied.					

## 14. Transport information

DOT UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class(es): Label(s): Packing Group: Marine Pollutant:	UN 1505 Sodium persulfate 5.1 5.1 III No
IMDG UN Number: UN Proper Shipping Name: Transport Hazard Class(es) Class(es): Label(s): EmS No.: Packing Group: Marine Pollutant:	UN 1505 SODIUM PERSULPHATE 5.1 5.1 F-A, S-Q III No
IATA UN Number: Proper Shipping Name: Transport Hazard Class(es): Class(es): Label(s): Marine Pollutant: Packing Group:	UN 1505 Sodium persulphate 5.1 5.1 No III

## 15. Regulatory information

## **US Federal Regulations**



## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

#### CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### Hazard categories

Х	Acute (Immediate)		Chronic (Delayed)		Fire	Х	Reactive		Pressure Generating
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#### SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

#### SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

## SARA 311/312 Hazardous Chemical

Chemical Identity	Threshold Planning Quantity
PEROXYDISULFURIC	500 lbs
ACID DISODIUM SALT	

## SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

## Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

#### **US State Regulations**

#### **US.** California Proposition 65

No ingredient regulated by CA Prop 65 present.

## US. New Jersey Worker and Community Right-to-Know Act

PEROXYDISULFURIC ACID Listed DISODIUM SALT

## US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

## US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

## **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

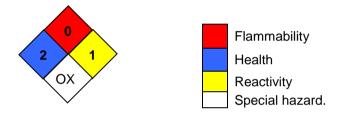


## **Inventory Status:**

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List: China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI): Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory: New Zealand Inventory of Chemicals: Japan ISHL Listing: Japan Pharmacopoeia Listing: On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory Not or in compliance with the inventory Not in compliance with the inventory Not in compliance with the inventory.

## 16.Other information, including date of preparation or last revision

## **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe OX: Oxidizing agent

1.0

No data available.

Issue Date:	12-01-2014

**Revision Date:** 

Version #:

Further Information: No data available.



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