

SAFETY DATA SHEET

1. Identification

Product identifier: POTASSIUM PERSULFATE

Other means of identification Product No.: 3239, 3238, 7076

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:	Environmental Health & Safety
e-mail:	info@avantormaterials.com

Emergency telephone number:

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

2. Hazard(s) identification

Hazard classification

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. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye

	Version: 1.0 Revision date: 08-05-2014
	protection/face protection. Wear respiratory protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.
Response:	IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
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.
Other hazards which do not result in GHS classification:	None.

3. Composition/information on ingredients

Substances

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
POTASSIUM PERSULFATE		7727-21-1	99 - 100%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

General information:	Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance.	
Ingestion:	Rinse mouth. Get medical attention if symptoms occur.	
Inhalation:	Move to fresh air. Get medical attention if symptoms occur.	
Skin contact:	Wash skin thoroughly with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention.	
Eye contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if symptoms persist.	
Most important symptoms/effects, acute and delayed		
Symptoms:	Irritating to eyes, respiratory system and skin. Harmful if swallowed. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause allergic skin reaction.	
Indication of immediate medical attention and special treatment needed		
Treatment:	Treat symptomatically.	
5. Fire-fighting measures		



General fire hazards:	May ignite other combustible materials. In case of fire and/or explosion do not breathe fumes.			
Suitable (and unsuitable) extingu	Suitable (and unsuitable) extinguishing media			
Suitable extinguishing media:	Extinguish with foam, carbon dioxide, dry powder or water fog.			
Unsuitable extinguishing media:	None known.			
Specific hazards arising from the chemical:	May intensify fire; oxidizer. Contact with combustible material may cause fire. During fire, gases hazardous to health may be formed.			
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.			
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	3			
Personal precautions, protective equipment and emergency procedures:	Keep unauthorized personnel away. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Ventilate closed spaces before entering them. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.			
Methods and material for containment and cleaning up:	Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if possible without any risk. Sweep up and place in a clearly labeled container for chemical waste. Collect in a non-combustible container for prompt disposal. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.			
Notification Procedures:	Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. Inform authorities if large amounts are involved.			
Environmental precautions:	Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.			
7. Handling and storage				
Precautions for safe handling:	Keep away from combustible material. Do not get in eyes, on skin, on clothing. Wash hands thoroughly after handling. Do not eat, drink or smoke when using the product. Do not taste or swallow. Avoid breathing dust or vapor. Use caution when adding this material to water. Add material slowly when mixing with water. Do not add water to the material; instead, add the material to the water.			
Conditions for safe storage, including any incompatibilities:	Do not store in metal containers. Store away from heat and light. Keep away from combustible material. Keep containers closed when not in use. Store in a cool, dry place. Keep container in a well-ventilated place.			



8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Occupational exposure limits				1
	Chemical identity	Туре	Exposure Limit values	Source
	POTASSIUM PERSULFATE - as persulfate	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (2011)
	ropriate engineering ontrols	No dat	a available.	
Indi	vidual protection measur	es, such as	personal protective equipr	nent
	General information:	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area.		
	Eye/face protection:	Use tight fitting goggles if dust is generated.		
	Skin protection Hand protection:	Use su	itable protective gloves if risl	k of skin contact.
	Other:	Wear	suitable protective clothing.	
	Respiratory protection:	recomr (in cou approv	nended exposure limits (whe ntries where exposure limits	ain airborne concentrations below ere applicable) or to an acceptable level have not been established), an Air-purifying respirator with a high
	Hygiene measures:	hygien	e measures, such as washin	v shower. Always observe good persona g after handling the material and before outinely wash work clothing and

protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance		
Physical state:	Solid	
Form:	Powder.	
Color:	White	
Odor:	Odorless	
Odor threshold:	No data available.	
pH:	No data available.	
Melting point/freezing point:	100 °C	
Initial boiling point and boiling range:	No data available.	
Flash Point:	No data available.	
Evaporation rate:	No data available.	
Flammability (solid, gas):	No data available.	
Upper/lower limit on flammability or explosive limits		
Flammability limit - upper (%):	No data available.	
Flammability limit - lower (%):	No data available.	
Explosive limit - upper (%):	No data available.	
SDS US - SDS00001023		



Explosive limit - lower (%):	No data available.	
Vapor pressure:	No data available.	
Vapor density:	9.30 AIR=1	
Relative density:	2.48 (20 °C)	
Solubility(ies)		
Solubility in water:	47 g/l	
Solubility (other):	No data available.	
Partition coefficient (n-octanol/w	vater): No data available.	
Auto-ignition temperature:	No data available.	
Decomposition temperature:	No data available.	
Viscosity:	No data available.	
Other information		
Molecular weight:	270.32 g/mol (H2O8S2.2K)	
10. Stability and reactivity		
Reactivity:	No dangerous reaction known under conditions of normal use.	
Chemical stability:	Unstable	
Possibility of hazardous reactions:	Hazardous polymerization does not occur.	
Conditions to avoid:	Heat. Shocks and physical damage. Contact with incompatible materials.	
Incompatible materials:	Organic compounds. Powdered metal. Phosphorus. Halogens and halogenated compounds. Alkalies. Acids.	
Hazardous decomposition products:	By heating and fire, toxic vapors/gases may be formed.	

11. Toxicological information

Information on likely routes of exposure Ingestion: Harmful if swallowed. Inhalation: May cause irritation to the respiratory system.

- Skin contact: Causes skin irritation.
- **Eye contact:** Causes serious eye irritation.

Information on toxicological effects

Acute toxicity (list all possible 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 irritatio Product:	on Causes serious eye irritation.		
Respiratory or skin sensitization Product:	 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. 		
Carcinogenicity Product:	This substance has no evidence of carcinogenic properties.		
IARC Monographs on the No carcinogenic component	Evaluation of Carcinogenic Risks to Humans: ts identified		
US. National Toxicology P No carcinogenic component	Program (NTP) Report on Carcinogens: ts 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: Respiratory tract irritation.			
Specific target organ toxicity - r Product:	Pepeated exposure No data available.		
Aspiration hazard Product:	Not classified		
Other effects:	None known.		

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product:	No data available.
Specified substance(s): POTASSIUM PERSULFATE	LC 50 (Carp (Cyprinus carpio), 48 h): 1,360 mg/l Mortality LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 48 h): 234 mg/l Mortality LC 50 (Guppy (Poecilia reticulata), 48 h): 845 mg/l Mortality
Aquatic invertebrates Product:	No data available.
Specified substance(s): POTASSIUM PERSULFATE SDS_US - SDS00001023	LC 50 (Cyclopoid copepod (Cyclops strenuus), 48 h): 1,175 mg/l Mortality LC 50 (Water flea (Daphnia pulicaria), 48 h): 251 mg/l Mortality 6/10



LC 50 (Oligochaete family (Tubificidae), 48 h): 575 mg/l Mortality LC 50 (Water flea (Daphnia magna), 48 h): 92 mg/l Mortality

No data available.
No data available.
No data available.
There are no data on the degradability of this product.
No data available.
F) No data available on bioaccumulation.
ol / water (log Kow) No data available.
No data available.
No data available. The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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IMDG	
UN number:	UN 1492
UN proper shipping name:	POTASSIUM PERSULPHATE
Transport hazard class(es)	
Ċlass(es):	5.1
Label(s):	5.1
EmS No.:	F-A, S-Q
Packing group:	III
Marine Pollutant:	No
ΙΑΤΑ	
UN number:	UN 1492
Proper Shipping Name:	Potassium persulphate
Transport hazard class(es):	
Ċlass(es):	5.1
Label(s):	5.1
Marine Pollutant:	No
Packing group:	III

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

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

X Acute (Immediate) Chronic (Delayed) X Fire Reactive Pressure Generating				
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				
POTASSIUM 500 lbs PERSULFATE				
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

POTASSIUM PERSULFATE Listed

US. Massachusetts RTK - Substance List POTASSIUM Listed PERSULFATE

US. Pennsylvania RTK - Hazardous Substances

POTASSIUM PERSULFATE Listed

US. Rhode Island RTK

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

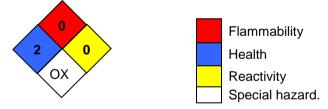
Inventory Status:

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:

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On or in compliance with the inventory
Not in compliance with the inventory.
On or in compliance with the inventory
Not in compliance with the inventory.
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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

Issue date:	08-05-2014
Revision date:	No data available.
Version #:	1.0
Further information:	No data available.



Disclaimer:

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