

MATERIAL SAFETY DATA SHEET**Product Name:** Potassium persulphate**CAS No.:** 7727-21-1**Version:** 0**1. Identification**

Product Code : 90221, 90514
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2. Composition/Information on Ingredients

Ingredient	CAS No	Percent
POTASSIUM PERSULPHATE	7727-21-1	99-100%

3. Hazards Identification**Hazard classification****Labels elements****Hazard symbol****Signal word****Hazard statement**

- : Danger
: 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 protection/face protection. Wear respiratory protection. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product .

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- 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 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.
- Other hazards which do not result in GHS classification** : None.

4. First Aid Measures

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. 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 persist.
- Skin contact** : Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.
- 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** : 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** : Treat symptomatically .

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- General fire hazards** : May ignite other combustible materials. In case of fire and/or explosion do not breathe fumes.
- 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 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

- 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. 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.

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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

Chemical identity	Type	Exposure Limit values	Source
POTASSIUM PERSULFATE - as persulfate	TWA	0.1 mg/m ³	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. 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. Use explosion-proof ventilation equipment.

Eye/face protection : Use tight fitting goggles if dust is generated.

Hand protection : Use suitable protective gloves if risk of skin contact.

Other : 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. Air-purifying respirator with a high efficiency particulate filter.

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.

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Appearance	:	White powder Solid.
Odor	:	Odorless
	:	No data available
pH	:	
Melting point/freezing point	:	100 °C
Initial boiling point and boiling range	:	No data available
Flash Point	:	No data available
Vapor pressure	:	No data available
Vapor density	:	9.30 AIR=1
Relative density	:	2.48 (20 °C)
Solubility in water	:	47 g/l
Solubility (other)	:	No data available.
Formula	:	H2O8S2.2K
Molecular Weight	:	270.32 g/mol

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.

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Repeated dose toxicity Product	:	No data available.
Skin corrosion/irritation Product	:	Causes skin irritation.
Serious eye damage/eye irritation Product	:	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 Evaluation of Carcinogenic Risks to Humans DIOXANE	:	No carcinogenic components identified
US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	:	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	:	Respiratory tract irritation.
Specific target organ toxicity - repeated exposure Product	:	None known.
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):	:	LC 50 (Carp (Cyprinus carpio), 48 h): 1,360 mg/l Mortality
POTASSIUM PERSULFATE	:	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):	:	LC 50 (Cyclopoid copepod (Cyclops strenuus), 48 h): 1,175 mg/l Mortality
POTASSIUM PERSULFATE	:	LC 50 (Water flea (Daphnia pulex), 48 h): 251 mg/l Mortality
	:	LC 50 (Oligochaete family (Tubificidae), 48 h): 575 mg/l Mortality
	:	LC 50 (Water flea (Daphnia magna), 48 h): 92 mg/l Mortality

Chronic hazards to the aquatic environment :

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- 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.
- Bioaccumulative potential**
- Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.
- Partition coefficient n-octanol / water (log Kow) Product** : No data available.
- Mobility in soil** : No data available.
- Other adverse effects** : 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.

13. Disposal consideration

- Disposal instructions** : 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.
- Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

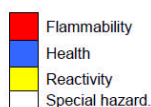
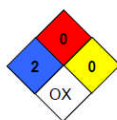
14. Transport Information

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
DOT	UN 1492	Potassium persulfate	5.1	III	No
IMDG	UN 1492	Potassium persulfate	5.1	III	No
IATA	UN 1492	Potassium persulfate	5.1	III	No

15. Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture
No Data Available.

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

OX: Oxidizing agent

Issue Date :01/08/2014**Version : 0**

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