

POTASSIUM PERMANGANATE, EXTRA PURE

SECTION 1: PRODUCT IDENTIFICATION

Product Name: POTASSIUM PERMANGANATE, EXTRA PURE
Product Code: 400
CAS#: 7722-64-7
Chemical Formula: KMnO_4
Molecular Weight: 158.03

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Composition:
Synonyms: POTASSIUM PERMANGANATE, EXTRA PURE
Chemical Formula: KMnO_4
Molecular Weight: 158.03

SECTION 3: HAZARDS IDENTIFICATION

Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008
Oxidizing solids (Category 2), H272
Acute toxicity, Oral (Category 4), H302
Skin corrosion (Category 1), H314
Serious eye damage (Category 1), H318
Other hazards: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher

SECTION 4: FIRST AID MEASURES

Description of first aid measures
If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact: Wash off with soap and plenty of water.
In case of eye contact: Flush eyes with water as a precaution.
If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with water

SECTION 5: FIRE FIGHTING MEASURES

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media: For this substance/mixture no limitations of extinguishing agents are given
Special hazards arising from the substance or mixture: Potassium oxides Manganese/manganese oxides Not combustible. Has a fire-promoting effect due to release of oxygen
Advice for firefighters: Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures: Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert



Environmental precautions: Do not let product enter drains.

Methods and materials for containment and cleaning up: Sweep up and shovel. Keep in suitable, closed containers for disposal

SECTION 7: HANDLING AND STORAGE

Precautions: Keep away from heat. Keep away from sources of ignition.

Storage: Store in cool, dry place in closed containers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye/face protection: Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product.

Respiratory protection: Respiratory protection is not required. If protection from nuisance levels of dusts are desired, use type N95 or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	:	Dark purple color crystalline powder
Odor	:	Not available
Color	:	Not available
Molecular Weight	:	Not available
pH	:	Not available
Boiling Point	:	Not available
Melting Point	:	Not available
Critical Temperature	:	Not available
Specific Gravity	:	Not available
Vapor Pressure	:	Not available
Vapor Density	:	Not available
Volatility	:	Not available
Odor Threshold	:	Not available
Water/Oil Dist. Coeff.	:	Not available
Iconicity (in Water)	:	Not available
Dispersion Properties	:	Not available
Solubility	:	Not available

SECTION 10: STABILITY AND REACTIVITY DATA

Reactivity: Not available

Stability: Stable under recommended storage conditions

Instability Temperature: Not available

Possibility of hazardous reactions: Risk of explosion with: powdered aluminium Ammonia ammonium compounds arsenic Dimethylformamide acetic acid Acetic anhydride formaldehyde oxidisable substances Nitro compounds phosphorus pyridine strong reducing agents hydrochloric acid sulfur Titanium sugars ammonium nitrate sulfuric acid Combustible Liquids Organic Substances mineral acids anhydrides mineral wool Alcohols with sulfuric acid alkali salts with sulfuric acid Risk of ignition or formation of inflammable gases or vapours with: Acetaldehyde Alcohols antimony Aldehydes silanes dimethyl sulfoxide Ethylene glycol ethanol Hydrogen fluoride organic solvent glycerol

Conditions of Instability: Not available

Incompatibility with various substances: Not available

Special Remarks on Reactivity: Not available



SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral - Rat - female - > 2.000 mg/kg
Skin corrosion/irritation: Not available
Serious eye damage/eye irritation: Not available
Respiratory or skin sensitization: Not available
Carcinogenicity: Not available
Reproductive toxicity: Not available
Specific target organ toxicity - single exposure: Not available
Specific target organ toxicity - repeated exposure: Not available
Aspiration hazard: Not available

SECTION 12: ECOLOGICAL INFORMATION

Toxicity: Toxicity to fish semi-static test LC50 - Poecilia reticulata (guppy) - 0,47 mg/l - 96 h
Toxicity to bacteria static test EC50 - activated sludge - 164 mg/l - 180 min
Persistence and degradability: The methods for determining the biological degradability are not applicable to inorganic substances
Bio accumulative potential: Not available
Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher
Mobility in soil: Not available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14: TRANSPORT INFORMATION

UN number:		
ADR/RID: : 1490	IMDG: : 1490	IATA: : 1490
UN proper shipping name		
ADR/RID: Potassium permanganate		
IMDG: Potassium permanganate		
IATA: Potassium permanganate		
Transport hazard class (es):		
ADR/RID: 5.1	IMDG: 5.1	IATA: 5.1
Packaging group:		
ADR/RID: II	IMDG: II	IATA: II
Environmental hazards:		
ADR/RID: Yes	IMDG: Yes	IATA: Yes

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture: This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006
Chemical Safety Assessment: For this product a chemical safety assessment was not carried out



SECTION 16: OTHER INFORMATION

References: Full text of H-Statements:

Full text of H-Statements referred to under sections 2 and 3.

H272 May intensify fire; oxidizer.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

H400 May intensify fire; oxidizer.

H410 Harmful if swallowed.

Other Special Considerations: Not available

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