

1 PRODUCT & COMPANY IDENTIFICATION

Product Name: Potassium Permanganate	Supplier: ASES CHEMICAL WORKS.
Synonyms: Potassium manganate(VII) / Permanganate of potash	Address: Brahm Bagh, Jalori Gate Jodhpur - 342001 Rajasthan-India
INCI Name: Potassium Permanganate	Phone: +91-9636889954
CAS Number: 7722-64-7	Web: www.ases.in
Formula: KMnO ₄	Email : ecom@ases.in
Product Form: Solid Crystal	
Product Use: Laboratory chemicals, Manufacture of substances.	

2 HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Oxidising Solids, Category 2	H272
Acute toxicity (oral), Category 4	H302
Reproductive toxicity, Category 2	H361d
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

Adverse physicochemical, human health and environmental effects

May intensify fire; oxidiser. Suspected of damaging fertility or the unborn child. Harmful if swallowed. Very toxic to aquatic life with long lasting effects.

Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word : Warning

Hazard statements :
H272 - May intensify fire; oxidiser.
H302 - Harmful if swallowed.
H361d - Suspected of damaging the unborn child.
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements :
P201 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
P220 - Keep away from clothing and other combustible materials.
P273 - Avoid release to the environment.
P280 - Wear protective clothing, eye protection, face protection, protective gloves.
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

Other hazards : Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Formula	Weight%
POTASSIUM PERMANGANATE	7722-64-7	231-760-3	KMnO ₄	100%

4 FIRST AID MEASURES

- General:** IF exposed or concerned: Get medical advice/attention. Call a poison center or a doctor if you feel unwell.
- Eye Contact:** Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
- Skin Contact:** Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water.
- Inhalation:** Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.
- Ingestion:** Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. Call a poison center or a doctor if you feel unwell

MATERIAL SAFETY DATA SHEET

POTASSIUM PERMANGANATE

5 FIRE-FIGHTING MEASURES

Suitable extinguishing media:	Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂). Water spray. Dry powder. Foam
Non-suitable extinguishing media:	Do not use a heavy water stream.
Special protective equipment & precautions:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Hazardous combustion products:	Toxic fumes may be released.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear recommended personal protective equipment.
Environmental precautions:	Avoid release to the environment.
Methods for cleaning:	Collect spillage. Mechanically recover the product. Clear up rapidly by scoop or vacuum. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site

7 HANDLING & STORAGE

Handling:	Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.
Storage:	Keep in a cool, well-ventilated place away from heat. Store in original container. Store in a dry place. Protect from moisture. Store locked up.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure controls:	Ensure good ventilation of the work station.
Personal protective equipment:	Wear recommended personal protective equipment.
Eye protection :	Chemical goggles or safety glasses
Hand protection:	Protective gloves
Skin and body protection:	Wear a mask
Respiratory protection:	Wear appropriate mask. [In case of inadequate ventilation] wear respiratory protection.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	Solid	pH :	7.2 – 9.7 at 20 °C
Colour :	Dark violet.	pH solution concentration :	2 %
Appearance :	Crystalline powder.	Viscosity, kinematic :	Not applicable
Odour :	Odourless.	Solubility :	Water: 76 g/l at 25 °C
Odour threshold :	Not available	Partition coefficient: n-octanol/water (Log Kow)	Not available
Melting point :	240 °C (decomposes)	Vapour pressure :	Not available
Freezing point :	Not applicable	Vapour pressure at 50°C :	Not available
Boiling point :	Not available	Density :	2.7 g/cm ³
Flammability :	Non-flammable	Relative density :	Not available
Explosion limit :	Not applicable	Relative vapour density at 20°C :	5.4 (Air=1)
Flash point :	Not applicable	Particle size :	Not available
Auto-ignition temperature :	Not applicable		
Decomposition temperature:	Not available		

10 STABILITY AND REACTIVITY

Reactivity:	May intensify fire; oxidiser.
Chemical stability:	Stable under recommended storage conditions.
Conditions to Avoid:	Direct sunlight. Air contact. Moisture. Eliminate all sources of ignition.
Substance to be avoided:	Combustible materials.
Hazardous Reaction:	No dangerous reactions known under normal conditions of use..

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11 TOXICOLOGICAL INFORMATION

Acute toxicity (oral) :	Harmful if swallowed.
Acute toxicity (dermal) :	Not classified
Acute toxicity (inhalation) :	Not classified
Skin corrosion/irritation :	Not classified
	pH: 7.2 – 9.7 at 20 °C
Serious eye damage/irritation :	Not classified
	pH:7.2 – 9.7 at 20 °C
Respiratory or skin sensitisation :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Not classified
Reproductive toxicity :	Suspected of damaging the unborn child.
STOT-single exposure :	Not classified
STOT-repeated exposure :	Not classified
Aspiration hazard :	Not classified

12 ECOLOGICAL INFORMATION

Toxicity

Ecology - general : Very toxic to aquatic life with long lasting effects.

Ecology - water : Very toxic to aquatic life

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

Hazardous to the aquatic environment, long-term(chronic) : Very toxic to aquatic life with long lasting effects

Persistence and Degradability Rapidly degradable

Bio-accumulative Potential No data available.

Mobility in Soil No data available.

Other Adverse Effects No data available.

13 DISPOSAL CONSIDERATIONS

Advice on Disposal and Packaging

Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. Disposal must be done according to official regulations.

14 TRANSPORT INFORMATION

In accordance with ADR / IMDG / IATA / ADN / RID

UN number or ID number ADR / IMDG / IATA / ADN / RID : UN 1490

UN proper shipping name ADR / IMDG / IATA / ADN / RID : POTASSIUM PERMANGANATE

Transport document description ADR / IMDG / IATA / ADN / RID : UN 1490 POTASSIUM PERMANGANATE, 5.1, II

Transport hazard class(es) ADR / IMDG / IATA / ADN / RID : 5.1

Danger labels ADR / IMDG / IATA / ADN / RID : 5.1



Packing Group ADR / IMDG / IATA / ADN / RID : II

Environmental hazards

Dangerous for the environment : Yes

Marine pollutant : Yes

Other information : No supplementary information available

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15 REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

EU-Regulations : No REACH Annex XVII restrictions

Potassium perchlorate is not on the REACH Candidate List

Potassium perchlorate is not on the REACH Annex XIV List

National regulations

Germany : WGK 3, Highly hazardous to water (Classification according to AwSV; ID No. 1936). This product is subject to ChemVerbotsV Annex 2 Entry 2.

Denmark: MAL code : 00-3 (Executive Order No. 301 from 1993).

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Chemical Safety Assessment

No chemical safety assessment has been carried out

16 OTHER INFORMATION

Disclaimer & Caution

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and ASES CHEMICAL WORKS assume no liability resulting from its use.