

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product identifier:

Product name: POTASSIUM PERMANGANATE
REACH registered number(s): 01-2119480139-34-0000
CAS number: 7722-64-7
EINECS number: 231-760-3
Synonyms: *AQUOX REMOX S

Relevant identified uses of the substance or mixture and uses advised against:

Use of substance / mixture: Wastewater treatment chemical.

Company name:

Nexchem Ltd
Unit 3 Barshaw Park
Leycroft Road
Leicester
LE4 1ET
Tel: 0116 2311130
24/7 Emergency Tel: 0800 246 1274
Email: sales@nexchem.co.uk

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture:

Classification under CLP: * Acute Tox. 4: H302;
Aquatic Acute 1: H400;
Aquatic Chronic 1: H410;
Ox. Sol. 2: H272;
Skin Corr. 1C: H314.

Most important adverse effects:

May intensify fire; oxidiser.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Very toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

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Label elements:

Hazard statements: * H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Hazard pictograms: GHS03: Flame over circle
GHS07: Exclamation mark
GHS09: Environmental
GHS05: Corrosion



Signal words: Danger

Precautionary statements: * P220: Keep/Store away from clothing/combustible materials.
P264: Wash hands thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P273: Avoid release to the environment.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P405: Store locked up.
P501: Dispose of contents/container to hazardous or special waste collection point. 2.3.

Other hazards:

PBT: This product is not identified as a PBT/vPvB substance.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances:

Chemical identity: POTASSIUM PERMANGANATE
CAS number: 7722-64-7
EINECS number: 231-760-3
REACH registered number(s): 01-2119480139-34-0000

4. FIRST AID MEASURES

Description of first aid measures:

Skin contact: Wash immediately with plenty of soap and water.
Eye contact: Bathe the eye with running water for 15 minutes.

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Ingestion: Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

Most important symptoms and effects, both acute and delayed:

Skin contact: There may be mild irritation at the site of contact.

Eye contact: There may be irritation and redness.

Ingestion: There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Absorption through the lungs can occur causing symptoms similar to those of ingestion.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Indication of any immediate medical attention and special treatment needed:

Immediate / special treatment: Not applicable.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used.

Special hazards arising from the substance or mixture:

Exposure hazards: In combustion emits toxic fumes.

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personal precautions: Refer to section 8 of SDS for personal protection details. Do not create dust. Mark out the contaminated area with signs and prevent access to unauthorised personnel. If outside do not approach from downwind.

Environmental precautions: Do not discharge into drains or rivers.

Methods and material for containment and cleaning up:

Clean-up procedures: Transfer to a closable, labelled salvage container for disposal by an appropriate method. Wash the spillage site with large amounts of water.

Reference to other sections: Refer to section 8 of SDS.

7. HANDLING AND STORAGE

Precautions for safe handling:

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid the formation or spread of dust in the air. Avoid direct contact with the substance.

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Conditions for safe storage, including any incompatibilities:

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

Specific end use(s): No data available.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Workplace exposure limits: No data available.

DNEL/PNEC Values: POTASSIUM PERMANGANATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	0.0389mg/m3	General Population	Systemic
DNEL	Oral (repeated dose)	0.01111mg/kg/day	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.218mg/m3	Workers	Systemic
PNEC	Fresh water	0.00006mg/l	-	-
PNEC	Microorganisms in sewage treatment	1.64mg/l	-	-

Hazardous ingredients: POTASSIUM PERMANGANATE

Type	Exposure	Value	Population	Effect
DNEL	Inhalation (repeated dose)	0.0389mg/m3	General Population	Systemic
DNEL	Oral (repeated dose)	0.01111mg/kg/day	General Population	Systemic
DNEL	Inhalation (repeated dose)	0.218mg/m3	Workers	Systemic
PNEC	Fresh water	0.00006mg/l	-	-
PNEC	Microorganisms in sewage treatment	1.64mg/l	-	-

Exposure controls:

Engineering measures: Ensure there is sufficient ventilation of the area.

Respiratory protection: Compressed airline breathing apparatus (EN139). Respiratory protective device with particle filter. Particle filter class P1 (EN143). Self-contained breathing apparatus must be available in case of emergency.

Hand protection: PVC gloves. Rubber gloves.

Eye protection: Safety goggles. Face-shield. Ensure eye bath is to hand.

Skin protection: Protective clothing with elasticated cuffs and closed neck.

Environmental: Refer to specific Member State legislation for requirements under Community environmental legislation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

State:	Solid
Colour:	Dark purple
Odour:	Odourless
Evaporation rate:	No data available.
Oxidising:	Oxidising (by EC criteria)
Solubility in water:	Soluble

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Viscosity:	No data available.	
Boiling point/range°C:	Not applicable.	
Melting point/range°C:	150	
Flammability limits %:	lower: Not applicable.	upper: Not applicable.
Flash point°C:	Not applicable.	
Part.coeff. n-octanol/water:	No data available.	
Autoflammability°C:	No data available.	
Vapour pressure:	Not applicable.	
Relative density:	2.7	
pH:	No data available.	
VOC g/l:	No data available.	
Other information:	No data available.	

10. STABILITY AND REACTIVITY

Reactivity:	Stable under recommended transport or storage conditions.
Chemical stability:	Stable under normal conditions.
Possibility of hazardous reactions:	
Hazardous reactions:	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
Conditions to avoid:	Heat.
Incompatible materials:	
Materials to avoid:	Strong oxidising agents. Strong acids. Reducing agents. Finely powdered metals.
Hazardous decomposition products:	In combustion emits toxic fumes.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects:

Toxicity values:

Route	Species	Test	Value	Units
ORL	RAT	LD50	2000	mg/kg
DERMAL	RAT	LD50	2000	mg/kg

Hazardous ingredients:

Route	Species	Test	Value	Units
DERMAL	RAT	LD50	2000	mg/kg
ORL	RAT	LD50	2000	mg/kg

[cont...]

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Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated

Symptoms / routes of exposure:

Skin contact:	There may be mild irritation at the site of contact.
Eye contact:	There may be irritation and redness.
Ingestion:	There may be soreness and redness of the mouth and throat. There may be difficulty swallowing. Nausea and stomach pain may occur. There may be vomiting.
Inhalation:	Absorption through the lungs can occur causing symptoms similar to those of ingestion.
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.

12. ECOLOGICAL INFORMATION

Toxicity:

* Ecotoxicity values:

Species	Test	Value	Units
Daphnia magna	48H EC50	0.06	mg/l
ALGAE	72H ErC50	0.43	mg/l
FISH	96H LC50	0.47	ml/l

Hazardous ingredients:

FISH	96H LC50	0.47	ml/l
ALGAE	72H ErC50	0.43	mg/l
Daphnia magna	48H EC50	0.06	mg/l

Persistence and degradability: Biodegradable.

Bioaccumulative potential: No bioaccumulation potential.

Mobility in soil:

Mobility: Soluble in water.

Results of PBT and vPvB assessment:

PBT identification: This product is not identified as a PBT/vPvB substance.

Other adverse effects: Negligible ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Disposal operations: Land treatment (e.g. biodegradation of liquid or sludge discards in soils, etc.). Mix or dissolve with a combustible material and burn in a chemical incinerator equipped with afterburners and scrubbers.

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Disposal of packaging: Dispose of in a regulated landfill site or other method for hazardous or toxic wastes.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

14. TRANSPORT INFORMATION

UN number: UN1490

UN proper shipping name:

Shipping name: POTASSIUM PERMANGANATE

Transport hazard class(es):

Transport class: 5.1

Packing group: II

Environmental hazards:

Environmentally hazardous: Yes

Marine pollutant: * Yes

Special precautions for user:

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

15. REGULATORY INFORMATION

Specific regulations: This product is a Seveso category/named substance in Annex I of Council Directive 96/82/EC.

Chemical safety assessment: * A chemical safety assessment has been carried out for the substance or the mixture by the supplier.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Other information: This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

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Phrases used in s.2 and s.3:

H272: May intensify fire; oxidiser.
H302: Harmful if swallowed.
H314: Causes severe skin burns and eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.