

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Date of issue: 15/01/2014 Revision date: 23/06/2022 Supersedes version of: 12/04/2018 Version: 2.2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Trade name	: Potassium permanganate AGR
Chemical name	: potassium permanganate
IUPAC name	: potassium permanganate
EC Index-No.	: 025-002-00-9
EC-No.	: 231-760-3
CAS-No.	: 7722-64-7
REACH registration No	: 01-2119480139-34
Product code	: KMNO-00A
Formula	: KMnO4

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category

: Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

labbox labware s.l. Migjorn, 1 P.O. Box Barcelona (SPAIN) 08338 Premia de Dalt - SPAIN FS T +34 937 07 79 70 - F +34 937 909 532 info@labbox.com - www.labbox.com

1.4. Emergency telephone number

Emergency number

: +34 937 077 970 (For technical information_Office Hours) In case of medical emergency phone 112 or to your local emergency number.

Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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 — Chronic Hazard, Category 1	H410
Full text of H and EUH statements: see section 16	

Adverse physicochemical, human health and environmental effects

No additional information available

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2.2. Label elements Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS03 GHS07 GHS08 GHS09 Signal word (CLP) : Danger Hazard statements (CLP) : 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 (CLP) : P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P263 - Avoid contact during pregnancy/while nursing. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P309+P311 - IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

2.3. Other hazards

No additional information available

3.1. Substances		
Substance type	: Mono-constituent	
Name	Product identifier	%
Potassium permanganate	CAS-No.: 7722-64-7 EC-No.: 231-760-3 EC Index-No.: 025-002-00-9 REACH-no: 01-2119480139- 34	≥ 99

Not applicable

SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	: Get medical advice/attention if you feel unwell.	
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.	
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.	
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Get medical advice/attention.	
First-aid measures after ingestion	: Do not induce vomiting. Drink plenty of water. Get immediate medical advice/attention.	
4.2. Most important symptoms and effects, both acute and delayed		
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	 May cause respiratory irritation. Burns. Burns. May cause severe chemical burns to skin and cornea. 	

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Symptoms/effects after ingestion

: Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. nausea, vomiting.

4.3. Indication of any immediate medical attention and special treatment needed

Never give anything by mouth to an unconscious person.

SECTION 5: Firefighting measures		
5.1. Extinguishing media		
Suitable extinguishing media Unsuitable extinguishing media	: Water spray. Sand. Carbon dioxide. Foam. : Strong water jet.	
5.2. Special hazards arising from the substance or mixture		
Fire hazard	: May form explosive peroxides.	
5.3. Advice for firefighters		
Precautionary measures fire Protection during firefighting	 Stop leak if safe to do so. Do not enter fire area without proper protective equipment, including respiratory protection. 	

SECTION 6: Accidental release measures			
6.1. Personal precautions, protective equipment and emergency procedures			
General measures	: Evacuate area. Avoid dust formation.		
6.1.1. For non-emergency personnel			
No additional information available			
6.1.2. For emergency responders			
Protective equipment	: Equip cleanup crew with proper protection. Do not attempt to take action without suitable protective equipment.		
6.2. Environmental precautions			

Prevent entry to sewers and public waters. Avoid release to the environment. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment a	and cleaning up
For containment Methods for cleaning up	 Collect spillage. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Heading 8. For further information refer to section 13.

SECTION 7: Handling and store	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	Take precautionary measures against static discharge.Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, in	ncluding any incompatibilities
Incompatible products Storage area Special rules on packaging	 Oxidizing agent. bases, metals, oxidation agents, flammable products, sulphurs Store away from heat. Store in a well-ventilated place. Keep only in original container. Store in a closed container.

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7.3. Specific end use(s)

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Potassium permanganate AGR (7722-64-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Potassium permanganate	
IOEL TWA	0,2 mg/m³ (inhalable fraction) 0,05 mg/m³ (respirable fraction)	
Remark	SCOEL Recommendations (2011)	

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Potassium permanganate AGR (7722-64-7)		
DNEL/DMEL (Workers)		
0,218 mg/m³		
DNEL/DMEL (General population)		
0,01111 mg/kg bodyweight/day		
0,0389 mg/m³		
PNEC (Water)		
0,06 µg/l		
0,6 µg/l		
PNEC (STP)		
1,64 mg/l		

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

8.2.2. Personal protection equipment

Personal protective equipment:

EN 374.

Personal protective equipment symbol(s):



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8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:

Wear respiratory protection.

Respiratory protection			
Device	Filter type	Condition	Standard
	Particle filter		

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Other information:

The present safety data sheet is consistent with the specific conditions relied on to justify the registration of the substance as isolated intermediate. Do not eat, drink or smoke during use. Wash hands with water as a precaution.

SECTION 9: Physical and chemical properties	
9.1. Information on basic physical and ch	emical properties
Physical state	: Solid
Colour	: Violet.
Odour	: odourless.
Odour threshold	: Not available
Melting point	: 240 °C
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Product is not explosive.
Explosive limits	: Not applicable
Lower explosion limit	: Not applicable
Upper explosion limit	: Not applicable
Flash point	: Not applicable
Auto-ignition temperature	: Not applicable
Decomposition temperature	: Not available
рН	: 7 – 9 [5% w/w]
pH solution	: Not available
Viscosity, kinematic	: Not applicable
Solubility	: Soluble in water.
	Water: 64,3 g/l (20°C)
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 0 hPa
Vapour pressure at 50 °C	: Not available
Density	: 2,7 g/cm ³ Type: 'density' Temp.: 20 °C
Relative density	: Not available
Relative vapour density at 20 °C	: Not applicable
Particle size	: Not available

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9.2. Other information

- 9.2.1. Information with regard to physical hazard classes
- No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Oxidizing materials.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

May form explosive peroxides.

SECTION 11: Toxicological information		
11.1. Information on hazard classes as de	fined in Regulation (EC) No 1272/2008	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	: Harmful if swallowed. : Not classified : Not classified	
Potassium permanganate AGR (7722-64-	-7)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))	
Skin corrosion/irritation	: Not classified pH: 7 – 9 [5% w/w]	
Serious eye damage/irritation	: Not classified pH: 7 – 9 [5% w/w]	
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	
Potassium permanganate AGR (7722-64-	-7)	
NOAEL (oral, rat, 90 days)	40 mg/kg bodyweight Animal: rat, Guideline: EU Method B.7 (Repeated Dose (28 Days) Toxicity (Oral))	

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Potassium permanganate AGR (7722-64-7)	
NOAEL (dermal, rat/rabbit, 90 days)	150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Aspiration hazard :	Not classified
11.2. Information on other hazards	

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

facute) Hazardous to the aquatic environment, long-term Very toxic to aquatic life with long lasting effects. Potassium permanganate AGR (7722-64-7) Image: Comparison of Co			
LC50 - Fish [1] 0,47 mg/l Test organisms (species): Poecilia reticulata EC50 - Daphnia [1] 0,06 mg/l Test organisms (species): Daphnia magna 12.2. Persistence and degradability	(acute)		
EC50 - Daphnia [1] 0,06 mg/l Test organisms (species): Daphnia magna 12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Endocrine disrupting properties No additional information available	Potassium permanganate AGR (7722-64-7)		
12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Endocrine disrupting properties No additional information available	LC50 - Fish [1]	0,47 mg/l Test organisms (species): Poecilia reticulata	
No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil No additional information available 12.5. Results of PBT and vPvB assessment No additional information available 12.6. Endocrine disrupting properties No additional information available	EC50 - Daphnia [1]	0,06 mg/l Test organisms (species): Daphnia magna	
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12.6. Endocrine disrupting properties No additional information available	12.5. Results of PBT and vPvB assessment		
No additional information available	No additional information available		
	12.6. Endocrine disrupting properties		
12.7. Other adverse effects	No additional information available		
	12.7. Other adverse effects		

No additional information available

SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
Regional legislation (waste) Waste treatment methods HP Code	 Disposal must be done according to official regulations. Must follow special treatment according to local regulation. HP2 - "Oxidising:" waste which may, generally by providing oxygen, cause or contribute to the combustion of other materials. HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure. HP10 - "Toxic for reproduction:" waste which has adverse effects on sexual function and fertility in adult males and females, as well as developmental toxicity in the offspring. HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment 	

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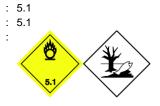
SECTION 14: Transport information		
In accordance with ADR / IMDG / IATA / ADN / RID		
14.1. UN number or ID number		
UN-No. (ADR) UN-No. (IMDG) UN-No. (IATA) UN-No. (ADN) UN-No. (RID)	 : UN 1490 	
14.2. UN proper shipping name		
Proper Shipping Name (ADR) Proper Shipping Name (IMDG) Proper Shipping Name (IATA) Proper Shipping Name (ADN) Proper Shipping Name (RID) Transport document description (ADR) Transport document description (IMDG) Transport document description (IATA) Transport document description (ADN) Transport document description (RID)	 POTASSIUM PERMANGANATE POTASSIUM PERMANGANATE Potassium permanganate POTASSIUM PERMANGANATE POTASSIUM PERMANGANATE UN 1490 POTASSIUM PERMANGANATE, 5.1, II, (E), ENVIRONMENTALLY HAZARDOUS UN 1490 POTASSIUM PERMANGANATE, 5.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS UN 1490 POTASSIUM PERMANGANATE, 5.1, II, ENVIRONMENTALLY HAZARDOUS 	
14.3. Transport hazard class(es)		
ADR		

Transport hazard class(es) (ADR) Danger labels (ADR)



IM	DG
	20

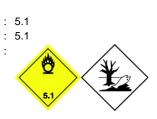
Transport hazard class(es) (IMDG) Danger labels (IMDG)

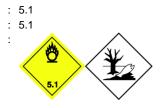


IATA Transport hazard class(es) (IATA) Danger labels (IATA)

ADN

Transport hazard class(es) (ADN) Danger labels (ADN)





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RID Transport hazard class(es) (RID) Danger labels (RID)	5.1 5.1
14.4. Packing group	
Packing group (ADR) Packing group (IMDG) Packing group (IATA) Packing group (ADN) Packing group (RID)	: II : II : II : II : II
14.5. Environmental hazards	
Dangerous for the environment Marine pollutant Other information	YesYesNo supplementary information available
14.6. Special precautions for user	
Overland transport Classification code (ADR) Limited quantities (ADR) Excepted quantities (ADR) Packing instructions (ADR) Special packing provisions (ADR) Mixed packing provisions (ADR) Portable tank and bulk container instructions (ADR) Portable tank and bulk container special provisions (ADR) Tank code (ADR) Tank special provisions (ADR) Vehicle for tank carriage Transport category (ADR) Special provisions for carriage - Packages (ADR) Special provisions for carriage - Loading, unloading and handling (ADR) Hazard identification number (Kemler No.) Orange plates	$\begin{array}{c} & 02 \\ & 1 kg \\ & E2 \\ & P002, IBC08 \\ & B4 \\ & MP2 \\ & T3 \\ & TP33 \\ \\ & SGAN \\ & TU3 \\ & AT \\ & 2 \\ & V11 \\ & CV24 \\ \\ & 50 \\ \hline 50 \\ \hline 50 \\ \hline 1490 \\ \end{array}$
Tunnel restriction code (ADR) EAC code	: E : 1Y
Transport by sea Limited quantities (IMDG) Excepted quantities (IMDG) Packing instructions (IMDG) IBC packing instructions (IMDG) IBC special provisions (IMDG) Tank instructions (IMDG) Tank special provisions (IMDG) EmS-No. (Fire) EmS-No. (Spillage) Stowage category (IMDG) Segregation (IMDG)	 1 kg E2 P002 IBC08 B2, B4 T3 TP33 F-H S-Q D SG38, SG49, SG60

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Properties and observations (IMDG)	: Dark purple crystals or powder. Soluble in water. Reacts vigorously with sulphuric acid and hydrogen peroxide. Reacts fiercely with cyanides when heated or by friction. May form explosive mixtures with combustible material, powdered metals or ammonium compounds. These mixtures are sensitive to friction and are liable to ignite. When involved in a fire, may cause an explosion.
Air transport PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: E2 : Y544
PCA limited quantity max net quantity (IATA)	: 2.5kg
PCA packing instructions (IATA)	: 558
PCA max net quantity (IATA)	: 5kg
CAO packing instructions (IATA)	: 562
CAO max net quantity (IATA)	: 25kg
ERG code (IATA)	: 5L
Classification code (ADN)	: O2
Limited quantities (ADN)	: 1 kg
Excepted quantities (ADN)	: E2
Equipment required (ADN)	: PP
Number of blue cones/lights (ADN)	: 0
Rail transport	
Classification code (RID)	: O2
Limited quantities (RID)	: 1kg
Excepted quantities (RID)	: E2
Packing instructions (RID)	: P002, IBC08
Special packing provisions (RID)	: B4
Mixed packing provisions (RID)	: MP2
Portable tank and bulk container instructions (RID)	: T3
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID) Special provisions for RID tanks (RID)	: SGAN : TU3 : 2
Transport category (RID) Special provisions for carriage – Packages (RID) Special provisions for carriage - Loading, unloading and handling (RID)	: W11 : CW24
Colis express (express parcels) (RID)	: CE10
Hazard identification number (RID)	: 50

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

No REACH Annex XVII restrictions

REACH Annex XIV (Authorisation List)

Potassium permanganate AGR is not on the REACH Annex XIV List

REACH Candidate List (SVHC)

Potassium permanganate AGR is not on the REACH Candidate List

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PIC Regulation (Prior Informed Consent)

Potassium permanganate AGR is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

POP Regulation (Persistent Organic Pollutants)

Potassium permanganate AGR is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Ozone Regulation (1005/2009)

Potassium permanganate is not subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Explosives Precursors Regulation (2019/1148)

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Drug Precursors Regulation (273/2004)

Contains no substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

15.1.2. National regulations

Germany

Water hazard class (WGK)	:	WGK 3, Highly hazardous to water (Classification according to VwVwS, Annex 3; ID No. 1936).
Chemicals Prohibition Ordinance (ChemVerbotsV)	:	This product is subject to ChemVerbotsV Annex 2 Entry 2. The following requirement must be observed: Basic requirements for the implementation of the submission (according to § 8 paragraph 1, 3 and 4).
Hazardous Incident Ordinance (12. BImSchV)	:	Is not subject of the Hazardous Incident Ordinance (12. BImSchV)
Netherlands		
SZW-lijst van kankerverwekkende stoffen	:	The substance is not listed
SZW-lijst van mutagene stoffen	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	:	The substance is not listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	:	Potassium permanganate is listed
Denmark		
Danish National Regulations	:	Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:		
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
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.	
Ox. Sol. 2	Oxidising Solids, Category 2	

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Repr. 2 Reproductive toxicity, Category 2	Full text of H- and EUH-statements:		
	Repr. 2	Reproductive toxicity, Category 2	

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.