

			C) No 1907/2006 (REACH) a		
		Potassiur	n permanganate		
	ion date	28th August 2019			
evisi	on date	29th April 2024	Version	3.0	
ECT	ION 1: Identification of	of the substance/mixture	e and of the company/un	ndertaking	
.1.	Product identifier	<b>- -</b>	Potassium perma	-	
	Substance / mixture		substance		
	Chemical name		potassium perma	inganate	
	CAS number		7722-64-7	-	
	Index number		025-002-00-9		
	EC (EINECS) number		231-760-3		
	Registration number		01-2119480139-3	34-xxxx	
	Other substance name	e			
	Potassium perm	anganate			
2.	Relevant identified	uses of the substance or	mixture and uses advise	d against	
			mixture and uses duvise	a agamot	
	Substance's intende				
	Substance's intende	ed use	atory synthesis, industrial ap	-	
	Substance's intende	e <b>d use</b> analytical chemistry, labora		-	
	Substance's intender Chemical production, Substance uses adv The product should no	ed use analytical chemistry, labora ised against ot be used in ways other tha	atory synthesis, industrial ar	oplications.	
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#### 2.1. on of the s ubstance or mixture

Classification of the substance in accordance with Regulation (EC) No 1272/2008 The substance is classified as dangerous.

Ox. Sol. 2, H272 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 2, H361d STOT RE 2, H373 (brain) (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410

#### Most serious adverse physico-chemical effects

May intensify fire; oxidiser.

#### Most serious adverse effects on human health and the environment

Harmful if swallowed. Suspected of damaging the unborn child. Causes severe skin burns and eye damage. May cause damage to the brain through prolonged or repeated exposure if inhaled. Very toxic to aquatic life with long lasting effects.

## 

# Safety data sheet

		SAFETY	DATA SHEET	
		according to Regulation (EC)	No 1907/2006 (REACH)	as amended
			permanganate	
Creati	on date	28th August 2019	permanganate	
	on date	29th April 2024	Version	3.0
2.2.	Label elements Hazard pictogram			
	Signal word			
	Danger			
	Dangerous substar	nce		
potassium permanga				
	Hazard statements			
	H272	May intensify fire;	oxidiser.	
	H302	Harmful if swallow	red.	
	H314	Causes severe ski	n burns and eye damage.	
	H361d	Suspected of dam	aging the unborn child.	
	H373	May cause damag	e to the brain through pro	olonged or repeated exposure if inhaled.
	H410	Very toxic to aqua	tic life with long lasting ef	ffects.
	Precautionary stat	ements		
	P220	Keep away from c	lothing and other combus	tible materials.
	P270	Do not eat, drink	or smoke when using this	product.
	P273	Avoid release to the	ne environment.	
	P303+P361+P353	IF ON SKIN (or ha with water or show		all contaminated clothing. Rinse skin
	P305+P351+P338		cautiously with water for and easy to do. Continue	several minutes. Remove contact rinsing.
	Supplemental info			
		Restricted to profe	essional users.	
-				

#### 2.3. Other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Substance does not meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Dust may form explosive mixture with air.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

### **Chemical characterization**

The substance specified below.

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
	substance main component			
Index: 025-002-00-9 CAS: 7722-64-7 EC: 231-760-3 Registration number: 01-2119480139-34- xxxx	potassium permanganate	>99	Ox. Sol. 2, H272 Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318 Repr. 2, H361d STOT RE 2, H373 (brain) (inhalation) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 (M=1)	

Full text of all classifications and hazard statements is given in the section 16.



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Potassium permanganate				
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	according to Regulation (EC <b>Potassium</b> 28th August 2019	according to Regulation (EC) No 1907/2006 (REACH) a <b>Potassium permanganate</b> 28th August 2019	according to Regulation (EC) No 1907/2006 (REACH) as amended Potassium permanganate 28th August 2019	

#### **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet. If unconscious, put the person in the stabilized (recovery) position on his side with his head slightly bent backwards and make sure that airways are free; never induce vomiting. If the person vomits by himself, make sure that the vomit is not inhaled. In life threatening conditions first of all provide resuscitation of the affected person and ensure medical assistance. Respiratory arrest - provide artificial respiration immediately. Cardiac arrest - provide indirect cardiac massage immediately.

#### If inhaled

Take care of your own safety, do not let the affected person walk! Terminate the exposure immediately; move the affected person to fresh air. Beware of the contaminated clothes. Depending on the situation, call the medical rescue service and ensure medical treatment considering the frequent need of further observation for at least 24 hours.

#### If on skin

Remove contaminated clothes. Take off any rings, watches, bracelets before or during washing if worn in the contaminated areas of the skin. Depending on the situation, call the medical rescue service and always ensure medical treatment. Rinse contaminated areas with a flow of water, lukewarm at best, for 10-30 minutes; do not use any brush, soap or neutralizers. Rinse skin with water or shower. Rinse cautiously with water for several minutes.

#### If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. No neutralization should be performed in any case! Rinsing should be continued for 10-30 minutes from the inner to the outer eye corner to make sure that the other eye is not involved. Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible. Everyone must be referred for treatment even if affected only a little.

#### If swallowed

RINSE THE MOUTH WITH WATER IMMEDIATELY AND LET THE PERSON DRINK 2-5 dl of cold water to reduce the heating effect of the corrosive substance. Consuming larger amounts of liquid is not advisable as it may induce vomiting and potential inhaling of the corrosive substances in the lungs. The affected person must not be forced to drink, particularly if already feeling pain in the mouth or throat. In this case let the affected person only rinse the mouth with water. DO NOT PROVIDE ACTIVATED CARBON! Depending on the situation, call medical rescue service or ensure medical treatment as promptly as possible.

#### 4.2. Most important symptoms and effects, both acute and delayed

#### If inhaled

Inhaling dust can cause corrosion of the breathing system. Cough, headache.

If on skin

Causes severe skin burns.

#### If in eyes

Causes serious eye damage.

#### If swallowed

Corrosion of the digestion system can occur.

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

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist. **Unsuitable extinguishing media** 

Water - full jet.

### 5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.



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#### 5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

#### **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. The substance is flammable. May intensify fire; oxidiser. Remove all ignition sources. Use personal protective equipment for work. Follow the instructions in the Sections 7 and 8. Do not inhale dust. Prevent contact with skin and eyes.

### 6.2. Environmental precautions

Do not allow to enter drains. Prevent contamination of the soil and entering surface or ground water.

#### 6.3. Methods and material for containment and cleaning up

Place the product mechanically in an appropriate manner. Dispose of the collected material according to the instructions in the section 13.

**6.4.** Reference to other sections See the Section 7, 8 and 13.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Prevent formation of gases and vapours in concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use of antistatic clothes and footwear is recommended. Do not inhale dust. Prevent contact with skin and eyes. No smoking. Obtain special instructions before use. Do not eat, drink or smoke when using this product. Wash hands and exposed parts of the body thoroughly after handling. Do not handle until all safety precautions have been read and understood. Take any precaution to avoid mixing with combustibles. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

#### 7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Do not expose to sunlight. Store locked up. Protect from moisture.

Storage class

12 - Other non-combustible liquids

#### The specific requirements or rules relating to the substance/mixture

It must not be stored on wooden bases.

7.3. Specific end use(s) not available

#### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

none

#### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

#### Eye/face protection

Protective goggles or face shield (based on the nature of the work performed).

#### Skin protection

Hand protection: Protective gloves resistant to the product (nitrile rubber). When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: protective workwear. Contaminated skin should be washed thoroughly.



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Thermal hazard

Not available.

#### **Environmental exposure controls**

Observe usual measures for protection of the environment, see Section 6.2. Collect spillage.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

	Physical state	solid
	Colour	violet
	Odour	without fragrance
	Melting point/freezing point	50 °C
	Boiling point or initial boiling point and boiling range	data not available
	Flammability	data not available
	Lower and upper explosion limit	data not available
	Flash point	data not available
	Auto-ignition temperature	data not available
	Decomposition temperature	data not available
	рН	7-9 (undiluted)
	Kinematic viscosity	data not available
	Solubility in water	64 g/l
	Partition coefficient n-octanol/water (log value)	-1.73
	Vapour pressure	<0.01 at 20 °C
	Density and/or relative density	
	Density	2.70 g/cm <sup>3</sup> at 20 °C
	Relative vapour density	data not available
	Particle characteristics	data not available
9.2.	Other information	
	Evaporation rate	data not available
	Oxidising properties	The product has an oxidizing properties.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

The substance is oxidizing.

- 10.2. Chemical stability
  - The product is stable under normal conditions.
- 10.3. Possibility of hazardous reactions Unknown.

### 10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

#### 10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

#### 10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperature and in fire.



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#### **SECTION 11: Toxicological information**

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

No toxicological data is available for the substance.

#### Acute toxicity

Harmful if swallowed.

potassium permanga	anate			
Route of exposure	Parameter	Value	Exposure time	Sp
Oral	LD50	1090 mg/kg		Ra

Route of exposure	rarameter		Exposure time	opecies	Sex
Oral	LD50	1090 mg/kg		Rat (Rattus norvegicus)	
Dermal	LD50	600 mg/kg		Rabbit	

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/irritation

Causes severe skin burns and eye damage. Causes serious eye damage.

#### Respiratory or skin sensitisation

No data available for the substance. Based on available data the classification criteria are not met.

#### Germ cell mutagenicity

No data available for the substance. Based on available data the classification criteria are not met.

#### Carcinogenicity

No data available for the substance. Based on available data the classification criteria are not met.

#### **Reproductive toxicity**

Suspected of damaging the unborn child.

#### Toxicity for specific target organ - single exposure

No data available for the substance. Based on available data the classification criteria are not met.

#### Toxicity for specific target organ - repeated exposure

May cause damage to the brain through prolonged or repeated exposure if inhaled.

#### **Aspiration hazard**

No data available for the substance. Based on available data the classification criteria are not met.

#### 11.2. Information on other hazards

The substance does not have endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

#### **SECTION 12: Ecological information**

#### 12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.



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#### Acute toxicity

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Parameter	Value	Exposure time	Species	Environment	
LC50	0.47 mg/l	96 hours	Fish (Poecilia reticulata)		
EC50	0.06 mg/l	48 hours	Daphnia (Daphnia magna)		

#### 12.2. Persistence and degradability

No data available for the substance.

#### 12.3. Bioaccumulative potential

No data available for the substance.

#### 12.4. Mobility in soil

No data available for the substance.

#### 12.5. Results of PBT and vPvB assessment

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

#### 12.6. Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100.

#### 12.7. Other adverse effects

Not available.

#### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification. Perfectly cleaned containers can be submitted for recycling.

#### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended. Decision 2000/532/EC establishing a list of wastes, as amended.

#### **SECTION 14:** Transport information

- **14.1. UN number or ID number** UN 1490
- **14.2. UN proper shipping name** POTASSIUM PERMANGANATE
- 14.3. Transport hazard class(es)
  - 5.1 Oxidazing substances
- 14.4. Packing group II
- 14.5. Environmental hazards not relevant
- **14.6.** Special precautions for user Reference in the Sections 4 to 8.
- **14.7.** Maritime transport in bulk according to IMO instruments not relevant



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Additional inf	ormation								
Hazard identification No.		50							
UN numbe Classificat Safety sig	ion code ns	1490 O2 5.1+hazardous for the e	nvironment						
Tunnel res	striction code	(E)							
Air transport - ICAO/IATA Packaging instructions passenger Cargo packaging instructions Marine transport - IMDG		558 562							
EmS (eme	ergency plan)	F-H, S-Q							

#### **SECTION 15: Regulatory information**

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

#### 15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

#### A list of standard risk phrases used in the safety data sheet

H272	May intensify fire; oxidiser.
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 the brain through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Guidelines for safe handling	used in the safety data sheet
P220	Keep away from clothing and other combustible materials.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Other important information about human health protection



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The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

Key to abbreviations and acronyms used in the safety data sheet ADR European agreement concerning the international carriage of dangerous goods by road BCF **Bioconcentration Factor** CAS Chemical Abstracts Service CLP Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures EC Identification code for each substance listed in EINECS EC50 Concentration of a substance when it is affected 50% of the population EINECS European Inventory of Existing Commercial Chemical Substances EmS Emergency plan EU European Union EuPCS European Product Categorisation System IATA International Air Transport Association IBC International Code For The Construction And Equipment of Ships Carrying **Dangerous Chemicals** ICAO International Civil Aviation Organization IMDG International Maritime Dangerous Goods IMO International Maritime Organization INCI International Nomenclature of Cosmetic Ingredients ISO International Organization for Standardization IUPAC International Union of Pure and Applied Chemistry LC50 Lethal concentration of a substance in which it can be expected death of 50% of the population LD 50 Lethal dose of a substance in which it can be expected death of 50% of the population loa Kow Octanol-water partition coefficient OEL Occupational Exposure Limits PBT Persistent, Bioaccumulative and Toxic Parts per million ppm REACH Registration, Evaluation, Authorisation and Restriction of Chemicals RID Agreement on the transport of dangerous goods by rail UN Four-figure identification number of the substance or article taken from the UN Model Regulations UVCB Substances of unknown or variable composition, complex reaction products or biological materials VOC Volatile organic compounds vPvB Very Persistent and very Bioaccumulative Acute Tox. Acute toxicity Aquatic Acute Hazardous to the aquatic environment Aquatic Chronic Hazardous to the aquatic environment (chronic) Eye Dam. Serious eye damage Ox. Sol. Oxidising solid Repr. Reproductive toxicity Skin Corr. Skin corrosion STOT RE Specific target organ toxicity - repeated exposure **Training guidelines** 

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

Recommended restrictions of use



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#### not available

#### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

#### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 05 October 2022. Changes were made in sections 1, 2, 12, 13, 15 and 16.

#### More information

Classification procedure - calculation method.

#### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.