

Material Safety Data Sheet

According to (EC) No 1907/2006 (REACH) and 1272/2008 (CLP)

KALII PERMANGANAS

EN

FORM-06-14-01 (V00)

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name:	Potassium permanganate Kalii permanganas Kaliumpermanganaat Potassium (permanganate de) Kaliumpermanganat
N° CAS:	7722-64-7
N° EC:	231-760-3

1.2 Relevant identified uses of the substance/mixture and uses advised against

Identified uses:	Active Pharmaceutical Ingredient or Excipient.
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1.3 Details of the supplier of the safety data sheet

Company:	FAC SECUNDUM ARTEM NV Oostmalsebaan 1c (unit 5) 2960 Sint-Lenaarts Belgium
Telephone:	(+32) (0)3 457 11 76
Email:	info@magis-pharma.be
Web page:	www.magis-pharma.be

1.4 Emergency telephone number

Public utility foundation:	Belgisch Antigifcentrum	Centre Antipoisons Belge
Telephone:	(+32) (0)70 245 245	(Service 24/7)
Web page:	www.antigifcentrum.be	www.centreantipoisons.be

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance/mixture

Classification according to (EC) n° 1272/2008

Ox. Sol. 2	H272
Acute Tox. 4	H302
Skin Corr. 1C	H314
STOT RE 2	H373
Repr. 2	H361d
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

2.2 Label elements

Labelling according to (EC) n° 1272/2008

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Hazard pictogram(s):



Signal word(s):

Danger

Hazard statements:

H272

May intensify fire; oxidiser.

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H373

May cause damage to organs through prolonged or repeated exposure.

H361d

Suspected of damaging the unborn child.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long-lasting effects.

Precautionary statements:

P220

Keep or store away from clothing/.../combustible materials.

P260

Do not breathe dust/fumes/gas/mist/vapours/spray.

P264

Wash hands thoroughly after handling.

P270

Do not eat, drink or smoke during use.

P273

Avoid release to the environment.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/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.

P314

Get medical advice/attention if you feel unwell.

P501

Dispose of this substance and its container to a special or hazardous waste collection point in accordance with local, regional, national and/or international regulations.

Additional applicable label elements:

Not applicable.

2.3 Other hazards

Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Product name:	Potassium permanganate
IUPAC name:	Potassium permanganate
Synonyms:	Chameleon mineral Argucide Permanganic acid potassium salt
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Molecular Formula: KMnO_4
Content: 99.0 per cent to 100.5 per cent

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General notes: Consult a doctor.
Show the safety data sheet to the doctor on duty.

After inhalation: Take to fresh air.
If breathing is irregular, call a doctor immediately.
Only give artificial respiration if breathing stops or under medical supervision.

After skin contact: Wash immediately with plenty of soap and water for at least 15 minutes.
Remove all contaminated clothing immediately.
Get medical attention if irritation develops and persists.

After eye contact: Remove contact lenses and rinse immediately with plenty of water, including under eyelids, for at least 15 minutes.
Get medical attention.

After ingestion: If conscious, give the victim plenty of water to drink.
Never give anything by mouth to an unconscious person.
Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Not available.

4.3 Indication of any immediate medical attention and special treatment needed

Not available.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam, dry powder, carbon dioxide, sand, water mist.
Neighbouring fires (containers exposed to fire): Water spray or fog.

Unsuitable extinguishing media: Direct water jet.

5.2 Special hazards arising from the substance/mixture

Avoid breathing combustion fumes.

5.3 Advice for firefighters

Surrounding fires: Cool containers with water to prevent decomposition of product and development of potential health hazards.
Always use full fire protection.
Collect water that should not enter the sewage system.

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Protection against fire:

Dispose of contaminated water used for extinguishing and residues in accordance with current regulations.

Helmet with visor, flame retardant clothing (jacket and trousers with straps around the arms, legs and waist, EN 469), gloves (fireproof and dielectric, EN 659), a mask with face mask covering the whole face of the operator or the car (self protective) in case of large amounts of smoke, a self-contained breathing apparatus (EN 137).

Hazardous combustion products:

Not available.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

For exposure control and personal protective measures, see section 8. Equip clean-up personnel with appropriate protective equipment. Ventilate area and evacuate unnecessary personnel.

For emergency responders

For exposure control and personal protective measures, see section 8. Ventilate area and evacuate unnecessary personnel.

6.2 Environmental precautions

Avoid penetration of the product into sewers, surface and ground water. If product enters drains, notify authorities.

6.3 Methods and material for containment and cleaning up

Collect dry, place in a bag and keep for later disposal as waste. Avoid raising dust. Ventilate the room and clean the place where the product has been spilled, once it has been completely removed.

6.4 Reference to other sections

For exposure control and personal protective measures, see section 8.

For waste disposal, follow the recommendations in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Precautions for safe handling:

Handle the product after consulting all other sections of this safety data sheet. Avoid dispersing product into the environment. Do not eat, drink or smoke during use. Remove contaminated clothing and protective equipment before entering eating areas.

Personal protection:

Not available.

Technical protective measures:

Not available.

Handling:

Handle the product after consulting all other sections of this safety data sheet.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Store only in original container.

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Conditions for safe storage, including any incompatibilities:

Keep container closed, in a dry, well-ventilated place, out of direct sunlight. Store containers away from incompatible materials, see section 10.

Storage – away from:

Store out of direct sunlight. Store containers away from incompatible materials, see section 10.

7.3 Specific end use(s)

Active Pharmaceutical Ingredient or Excipient

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Not available.

8.2 Exposure controls

Appropriate engineering control

Since the use of appropriate technical measures should always take precedence over personal protective equipment, ensure good ventilation at the workplace by effective local suction. When choosing personal protective equipment, ask your chemical suppliers if this is necessary. Personal protective equipment must be CE-marked for compliance with applicable regulations. Provide an emergency shower with a viscoelastic tray.

Hygiene measures: Handle with proper industrial hygiene precautions, and observe safety practices. Wash hands before breaks and after finishing work.

Individual protection measures

Eye/face protection: Protective face shields and safety goggles according to EN166.

Skin protection: Choose body protection according to the quantity and concentration of the hazardous substance in the workplace.

Hand protection: Handle with gloves. The selected protective gloves must comply with the specifications of EU Directive 89/686/EEC and the derived EN 374 standard.

Respiratory protection: Where risk assessment shows that air-purifying respirators are appropriate, use dust mask type N95 (USA) or type P1 (EN 143). Use respirators and components tested and approved under appropriate governmental standards such as NIOSH (US) or CEN (EU).

Thermal hazards: Not determined.

Environmental exposure control

Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance: Dark purple or brownish-black, granular powder or dark purple or almost black crystals, usually having a metallic lustre.

Odour: Odourless.

Odour threshold: Not available.

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pH:	7 – 9 (aqueous solution 20 g/L, 20 °C)
Melting/freezing point:	< 240 °C
Initial boiling point:	Not available.
Boiling range:	Not available.
Flash point:	Not available.
Evaporation rate:	Not available.
Flammability (solid/gas):	Not available.
Upper/lower flammability or explosive limits:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Relative density:	Not available.
Solubility:	Not available.
Solubility in water:	Soluble in cold water, freely soluble in boiling water. 65.32 g/l (20 °C)
Partition coefficient (n-octanol/water):	LogKOW -1.73
Auto-ignition temperature:	Not available.
Decomposition temperature:	240 °C
Viscosity:	Not available.
Explosive properties:	Not available.
Oxidising properties:	Not available.

9.2 Other information

Total solids (250 °C): 100.00 %.

VOC (Directive 2010/75/EC): 0

VOC (volatile carbon): 0

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

No special conditions. Stable under recommended handling and storage conditions (see section 7).

10.2 Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3 Possibility of hazardous reactions

The product may react violently with water.

In contact with combustible material, may catch fire.

10.4 Conditions to avoid

Avoid any kind of incorrect handling: high pressures and/or temperatures, or humidity.

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10.5 Incompatible materials

Strong oxidising and/or reducing agents. Strong acids. Metals or combustible material. Contact with HCl generates chlorine gas.

10.6 Hazardous decomposition products

Corrosive gases.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Oral LD ₅₀ (rat): > 2000 mg/kg Dermal LD ₅₀ (rat): > 2000 mg/kg
Skin corrosion/irritation:	May cause skin irritation.
Serious eye damage/irritation:	May cause eye irritation.
Respiratory/skin sensitisation:	Not available.
Germ cell mutagenicity:	Not available.
Carcinogenicity:	Not available.
Reproductive toxicity:	Not available.
Summary of evaluation of the CMR properties:	Not available.
STOT-single exposure:	Not available.
STOT-repeated exposure:	May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard:	Not available.
Other:	Signs and symptoms of exposure: Liver and kidney damage. Suspected of damaging the unborn child.

11.2 Additional information on potential adverse human health effects and symptoms

Eye contact:	Causes eye damage.
Skin contact:	Causes severe skin burns.
Inhalation:	Harmful if inhaled. May cause respiratory tract irritation.
Ingestion:	Harmful if swallowed.
Aspiration:	Not available.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity (LC₅₀, fish): 0.47 mg/L (96 h, *Poecilia reticulata*)
Aquatic toxicity (EC₅₀, invertebrates): 0.06 mg/L (48 h, *Daphnia magna*)
Aquatic toxicity (ErC₅₀, algae): 0.80 mg/L (72 h)

12.2 Persistence and degradability

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Not available.

12.3 Bioaccumulative potential

It is insignificantly enriched in organisms.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

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

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: Consider all federal, state and local environmental regulations. Contact a licensed professional waste disposal service for disposal of this material. Dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated container: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

Transport information according to ADR/RID/IMDG/ICAO/IATA

14.1 UN Number

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 1490

14.2 UN proper shipping name

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR/RID: POTASSIUM PERMANGANATE
IMDG: POTASSIUM PERMANGANATE
IATA: POTASSIUM PERMANGANATE

14.3 Transport hazard class(es)

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : 9

14.4 Packing group

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : II

14.5 Environmental hazards

ADR/ RID(Land),IMDG(Sea),
IATA/ICAO (Air) : ADR/RID: Dangerous for the environment.
IMDG: Marine pollutant
IATA: Dangerous for the environment.

14.6 Special precautions for user

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ADR/RID:	HIN - Kemler: 50 Special provisions: B4	Limited quantity: 1kg ---	Restriction code: (E) ---
IMDG:	EMS: F-H, S-Q	Limited quantity: 1 kg	
IATA:	Cargo:	Maximum quantity: 25 kg	Packaging instructions: 562
	Pass.:	Maximum quantity: 5 kg	Packaging instructions: 558

14.7 Transport in bulk according to annex II of Marpol and the IBC Code

Not available.

14.8 Additional transport information

Not available.

SECTION 15: REGULATORY INFORMATION

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

Hazard symbol:



Oxidising



Corrosive



Irritant



Harmful to the environment

Risk phrases:

R22 Harmful if swallowed.

R35 Causes severe burns.

R48 Danger of serious damage to health by prolonged exposure.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R63 Possible risk of harm to the unborn child.

Safety phrases:

S17 Keep away from combustible material.

S20/21 When using do not eat, drink or smoke.

S23 Do not breathe dust/fumes/gas/mist/vapours/spray.

S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S27/28 After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water/shower.

S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

16.1 Changes since the previous version

Not applicable.

16.2 Abbreviations and acronyms used

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ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
EC (number):	European Community (number)
IATA:	International Air Transport Association
ICAO:	International Civil Aviation Organization
IMDG:	International Maritime Code for Dangerous Goods
IUPAC:	International Union of Pure and Applied Chemistry
PBT:	Persistent, Bioaccumulative and Toxic substance
RID:	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT:	Specific Target Organ Toxicity
UN (number):	United Nations (number)
vPvB:	very Persistent and very Bioaccumulative

16.3 Key literature references/sources for data

European Chemicals Agency.

<https://www.echa.europa.eu/web/guest/information-on-chemicals/cl-inventory-database/>

16.4 Method of classification in case of mixture

Not applicable.

16.5 Relevant Hazard statements and/or precautionary statements

For information on hazard and/or precautionary statements refer to section 2 up to and including section 15.

16.6 Training advisement

Not available

16.7 Notice for user(s)

The information provided in this MSDS has been established in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015, amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council, on the Registration, Evaluation, Authorization 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 Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC of the Commission.

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16.8 Department issuing MSDS

Quality Department

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