

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

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

1.1 Product identifier

Trade name : KPS

REACH Registration Number : 01-2119495676-19-0000

Substance name : Potassium Persulfate

Index-No. : 016-061-00-1

EC-No. : 231-781-8

Other means of identification : Dipotassium peroxodisulfate

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

Use of the Sub-
stance/Mixture : Oxidizing agents, polymerisation initiators

Recommended restrictions
on use : Exposure Scenario is available as separate attachment., For
further information see eSDS.

1.3 Details of the supplier of the safety data sheet

Company : United Initiators GmbH
Dr.-Gustav-Adolph-Str. 3
82049 Pullach

Telephone : +49 / 89 / 74422 – 0

E-mail address of person
responsible for the SDS : contact@united-in.com

1.4 Emergency telephone number

0800 000 7801 (toll-free, access from Germany only) +49 89 220 61012

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Oxidizing solids, Category 3	H272: May intensify fire; oxidizer.
Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin irritation, Category 2	H315: Causes skin irritation.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878

KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Eye irritation, Category 2	H319: Causes serious eye irritation.
Respiratory sensitisation, Category 1	H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements :

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

Precautionary statements :

Prevention:

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep away from clothing and other combustible materials.
P261	Avoid breathing dust.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P342 + P311	If experiencing respiratory symptoms: Call a POISON CENTER/ doctor.
P370 + P378	In case of fire: Use water spray to extinguish.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	:	Potassium Persulfate
Index-No.	:	016-061-00-1
EC-No.	:	231-781-8
Chemical nature	:	Persulphate Solid

Components

Chemical name	CAS-No. EC-No.	Concentration (%) w/w)	M-Factor, SCL, ATE
Dipotassium peroxodisulphate	7727-21-1 231-781-8	<= 100	

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	:	Take off contaminated clothing and shoes immediately. Call a physician immediately. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. Symptoms of poisoning may appear several hours later.
Protection of first-aiders	:	First Aid responders should pay attention to self-protection and use the recommended protective clothing
If inhaled	:	Administer oxygen if breathing is difficult or cyanosis is observed. If breathed in, move person into fresh air. If not breathing, give artificial respiration.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

- Call a physician or poison control centre immediately.
If unconscious, place in recovery position and seek medical advice.
Keep respiratory tract clear.
- In case of skin contact : If symptoms persist, call a physician.
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
Wash contaminated clothing before re-use.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician immediately.
Rinse mouth thoroughly with water.
Keep respiratory tract clear.
If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : sensitising effects
- Risks : Harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause respiratory irritation.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : Treat symptomatically and supportively.
-

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media : Foam
Water spray jet
- Unsuitable extinguishing media : High volume water jet
-

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

Specific extinguishing methods : Do not use a solid water stream as it may scatter and spread fire.
Remove undamaged containers from fire area if it is safe to do so.
Use water spray to cool unopened containers.
Suppress (knock down) gases/vapours/mists with a water spray jet.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use a water spray to cool fully closed containers.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Follow safe handling advice and personal protective equipment recommendations.
Use personal protective equipment.
Avoid dust formation.
Avoid breathing dust.
Ensure adequate ventilation.
Remove all sources of ignition.
Never return spills in original containers for re-use.
Treat recovered material as described in the section "Disposal considerations".

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contact with incompatible materials or exposure to temperatures exceeding SADT may result in a self-accelerating decomposition reaction with release of flammable vapors which may auto-ignite.
Clear spills immediately.
Suppress (knock down) gases/vapours/mists with a water spray jet.
To clean the floor and all objects contaminated by this material, use plenty of water.
Soak up with inert absorbent material.
Isolate waste and do not reuse.
Non-sparking tools should be used.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Advice on safe handling : Avoid formation of respirable particles.
Protect from contamination.
Protect from moisture.
Do not swallow.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
Take precautionary measures against static discharges.
Never return any product to the container from which it was originally removed.
Provide sufficient air exchange and/or exhaust in work rooms.
Avoid confinement.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Smoking, eating and drinking should be prohibited in the application area.
Wash thoroughly after handling.
For personal protection see section 8.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

used.

Advice on protection against fire and explosion : Keep away from combustible material. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

Hygiene measures : Avoid contact with skin, eyes and clothing. Keep away from food and drink. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep in a well-ventilated place. Keep in a dry place. Observe label precautions. Store in accordance with the particular national regulations. Avoid impurities (e.g. rust, dust, ash), risk of decomposition. Electrical installations / working materials must comply with the technological safety standards. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Advice on common storage : Never allow product to get in contact with water during storage. Keep away from combustible materials. Keep away from strong acids, bases, heavy metal salts and other reducing substances.

Storage class (TRGS 510) : 5.1B

Recommended storage temperature : < 30 °C

Further information on storage stability : Stable under recommended storage conditions.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Dust Basis: DE DFG MAK

Allgemeiner Staubgrenzwert 10 mg/m³
Peak-limit: excursion factor (category): 2;(II)

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version 2.6 Revision Date: 08.01.2026 SDS Number: 600000000019 Date of last issue: 11.12.2025
Date of first issue: 10.03.2016

Value type (Form of exposure): AGW (Inhalable fraction)
Basis: DE TRGS 900
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

1,25 mg/m³
Peak-limit: excursion factor (category): 2;(II)
Value type (Form of exposure): AGW (Alveolate fraction)
Basis: DE TRGS 900
Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

Dust

0,3 mg/m³
Peak-limit: excursion factor (category): 8; II
Value type (Form of exposure): MAK (measured as the alveolate fraction)
Basis: DE DFG MAK
Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed

4 mg/m³
Peak-limit: excursion factor (category): 8; II
Value type (Form of exposure): MAK (inhalable fraction)
Basis: DE DFG MAK
Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006

Substance name	End Use	Exposure routes	Potential health effects	Value
Dipotassium peroxodisulphate	Workers	Inhalation	Long-term local effects	0,824 mg/m ³
	Workers	Skin contact	Long-term systemic effects	10,3 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,421 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	5,2 mg/kg bw/day

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version 2.6 Revision Date: 08.01.2026 SDS Number: 600000000019 Date of last issue: 11.12.2025
Date of first issue: 10.03.2016

	Consumers	Ingestion	Long-term systemic effects	0,52 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1,55 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006

Substance name	Environmental Compartment	Value
Dipotassium peroxodisulphate	Fresh water	0,518 mg/l
	Intermittent use/release	0,763 mg/l
	Marine water	0,052 mg/l
	Sewage treatment plant	3,6 mg/l
	Fresh water sediment	2,03 mg/kg dry weight (d.w.)
	Marine sediment	0,203 mg/kg dry weight (d.w.)
	Soil	0,1 mg/kg dry weight (d.w.)

8.2 Exposure controls

Engineering measures

Minimize workplace exposure concentrations.

Personal protective equipment

Eye/face protection : Ensure that eyewash stations and safety showers are close to the workstation location.
Please follow all applicable local/national requirements when selecting protective measures for a specific workplace.
Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Tightly fitting safety goggles
Please wear suitable protective goggles. Also wear face protection if there is a splash hazard.

Equipment should conform to EN 166

Hand protection

Material : butyl-rubber
Break through time : <= 480 min
Glove thickness : 0,47 mm

Material : Nitrile rubber
Break through time : <= 480 min
Glove thickness : 0,20 mm

Guideline : Equipment should conform to EN 374

Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. Choose gloves to protect hands against chemicals

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.
Wear as appropriate:
Flame retardant antistatic protective clothing.
- Respiratory protection : In the case of dust or aerosol formation use respirator with an approved filter.

Respirator with combination filter for vapour/particulate (EN 141)
- Filter type : Filter type P
- Protective measures : The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
-

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : solid
- Form : Crystalline powder
- Colour : white
- Odour : not significant
- Odour Threshold : not determined
- Melting point/freezing point : Decomposition: Decomposes below the melting point.
- Initial boiling point and boiling : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

range

Flammability : Not expected to form explosive dust-air mixtures.

Upper explosion limit / Upper flammability limit : Upper explosion limit
No data available

Lower explosion limit / Lower flammability limit : Lower explosion limit
No data available

Flash point : Not applicable

Auto-ignition temperature : Not applicable
Decomposition

Self-Accelerating decomposition temperature (SADT) : 170 °C
Method: UN-Test H.4
SADT-Self Accelerating Decomposition Temperature. Lowest temperature at which the tested package size will undergo a self-accelerating decomposition reaction.

pH : 4
Concentration: ca. 10 g/l

Viscosity
Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

Solubility(ies)
Water solubility : 60 g/l (25 °C)
soluble

Partition coefficient: n-octanol/water : Not applicable

Dispersion Stability : Not applicable

Vapour pressure : Not applicable

Relative density : not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Density	:	not determined
Bulk density	:	1.100 kg/m ³
Relative vapour density	:	Not applicable
Particle characteristics Assessment	:	This substance/ mixture does not contain nanoforms (according to REACH Regulation) based on: Measurement data
Particle size	:	not determined
Particle Size Distribution	:	D10 = 18 µm Type of distribution: volume distribution Measurement technique: laser diffraction
Dustiness	:	Avoid dust formation.
Shape	:	not determined
Crystallinity	:	not determined
Surface treatment /Coatings	:	Not applicable

9.2 Other information

Explosives	:	Not explosive
Oxidizing properties	:	The substance or mixture is classified as oxidizing with the category 3.
Self-ignition	:	The substance or mixture is not classified as pyrophoric.
Self-heating substances	:	The substance or mixture is not classified as self heating.
Substances and mixtures, which in contact with water,	:	The substance or mixture does not emit flammable gases in contact with water.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

emit flammable gases

Desensitised explosives : Not applicable

Evaporation rate : Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.
May intensify fire; oxidizer.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Avoid moisture.
Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).

10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.
Protect from moisture.
Contact with incompatible substances can cause decomposition at or below SADT.
Even small amounts of moisture or impurities can noticeably reduce the self-accelerating decomposition temperature (SADT).

10.5 Incompatible materials

Materials to avoid : Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents

10.6 Hazardous decomposition products

Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Product:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

- Acute oral toxicity : LD50 (Rat, male): 742 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Expert judgement
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Expert judgement

Components:

Dipotassium peroxodisulphate:

- Acute oral toxicity : LD50 (Rat, male): 742 mg/kg
Method: OECD Test Guideline 401
Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : LC50 (Rat): > 5,1 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Expert judgement
- Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Expert judgement

Skin corrosion/irritation

Causes skin irritation.

Product:

- Species : Rabbit
Method : OECD Test Guideline 404
Result : Skin irritation
- Remarks : May cause skin irritation in susceptible persons.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Components:

Dipotassium peroxodisulphate:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Eye irritation

Remarks	:	Product dust may be irritating to eyes, skin and respiratory system.
---------	---	--

Components:

Dipotassium peroxodisulphate:

Species	:	Rabbit
Method	:	OECD Test Guideline 405
Result	:	Eye irritation

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Product:

Exposure routes	:	Skin contact
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
Result	:	May cause sensitisation by skin contact.

Exposure routes	:	inhalation (dust/mist/fume)
Result	:	May cause sensitisation by inhalation.
Remarks	:	Expert judgement

Remarks	:	Causes sensitisation.
---------	---	-----------------------

Components:

Dipotassium peroxodisulphate:

Exposure routes	:	Skin contact
Species	:	Guinea pig

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Method : OECD Test Guideline 406
Result : May cause sensitisation by skin contact.

Exposure routes : inhalation (dust/mist/fume)
Result : May cause sensitisation by inhalation.
Remarks : Expert judgement

Germ cell mutagenicity

Not classified due to lack of data.

Components:

Dipotassium peroxodisulphate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified due to lack of data.

Product:

Species : Mouse
Application Route : Skin contact
Exposure time : 52 weeks
Method : OECD Test Guideline 451
Result : negative

Components:

Dipotassium peroxodisulphate:

Species : Mouse
Application Route : Skin contact
Exposure time : 52 weeks
Method : OECD Test Guideline 451
Result : negative

Reproductive toxicity

Not classified due to lack of data.

Product:

Effects on fertility : Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Result: negative

Effects on foetal development : Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Components:

Dipotassium peroxodisulphate:

Effects on fertility : Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

Effects on foetal development : Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 421
Result: negative

STOT - single exposure

May cause respiratory irritation.

Product:

Assessment : May cause respiratory irritation.

Components:

Dipotassium peroxodisulphate:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified due to lack of data.

Repeated dose toxicity

Product:

Species : Rat
NOAEL : 1.000 mg/kg
LOAEL : 3.000 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Method : OECD Test Guideline 408

Components:

Dipotassium peroxodisulphate:

Species : Rat
NOAEL : 1.000 mg/kg

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

LOAEL : 3.000 mg/kg
Application Route : Ingestion
Exposure time : 90 d
Method : OECD Test Guideline 408

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Further information

Product:

Remarks : No data available

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Scophthalmus maximus (turbot)): 107,6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 120 mg/l
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : EC50 (Phaeodactylum): 320 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Phaeodactylum): 32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l
Exposure time: 18 h

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Remarks: Based on data from similar materials

Components:

Dipotassium peroxodisulphate:

Toxicity to fish : LC50 (Scophthalmus maximus (turbot)): 107,6 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
Remarks: Based on data from similar materials

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 120 mg/l
aquatic invertebrates
Exposure time: 48 h
Remarks: Based on data from similar materials

Toxicity to algae/aquatic : EC50 (Phaeodactylum): 320 mg/l
plants
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Phaeodactylum): 32 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): 36 mg/l
Exposure time: 18 h
Remarks: Based on data from similar materials

12.2 Persistence and degradability

Components:

Dipotassium peroxodisulphate:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

Dipotassium peroxodisulphate:

Partition coefficient: n- : Remarks: Not applicable
octanol/water

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

No data available

12.7 Other adverse effects

Product:

Additional ecological information : No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Dispose of wastes in an approved waste disposal facility. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container.

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Contaminated packaging : Dispose of in accordance with local regulations. Clean container with water. Dispose of contents/ container to an approved waste disposal plant. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number or ID number

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

ADN : UN 1492
ADR : UN 1492
RID : UN 1492
IMDG : UN 1492
IATA : UN 1492

14.2 UN proper shipping name

ADN : POTASSIUM PERSULPHATE
ADR : POTASSIUM PERSULPHATE
RID : POTASSIUM PERSULPHATE
IMDG : POTASSIUM PERSULPHATE
IATA : Potassium persulphate

14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 5.1	
ADR	: 5.1	
RID	: 5.1	
IMDG	: 5.1	
IATA	: 5.1	

14.4 Packing group

ADN
Packing group : III
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1

ADR
Packing group : III
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1
Tunnel restriction code : (E)

RID
Packing group : III
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1

IMDG
Packing group : III

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Labels : 5.1
EmS Code : F-A, S-Q

IATA (Cargo)

Packing instruction (cargo aircraft) : 563
Packing instruction (LQ) : Y546
Packing group : III
Labels : Oxidizer

IATA (Passenger)

Packing instruction (passenger aircraft) : 559
Packing instruction (LQ) : Y546
Packing group : III
Labels : Oxidizer

14.5 Environmental hazards

ADN

Environmentally hazardous : no

ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 75: If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer : Not applicable

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P8 OXIDIZING LIQUIDS AND SOLIDS

Water hazard class (Germany) : WGK 1 slightly hazardous to water
Code Number: 1.350
Classification according to AwSV §6(4)

Other regulations:

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

The components of this product are reported in the following inventories:

TCSI (TW)	: On the inventory, or in compliance with the inventory
TSCA (US)	: All substances listed as active on the TSCA inventory
AIIC (AU)	: All components are listed on the inventory, regulatory obligations/restrictions apply
DSL (CA)	: All components of this product are on the Canadian DSL
ENCS (JP)	: On the inventory, or in compliance with the inventory
ISHL (JP)	: On the inventory, or in compliance with the inventory
KECI (KR)	: On the inventory, or in compliance with the inventory
PICCS (PH)	: On the inventory, or in compliance with the inventory
IECSC (CN)	: On the inventory, or in compliance with the inventory
NZIoC (NZ)	: On the inventory, or in compliance with the inventory

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

TECI (TH) : On the inventory, or in compliance with the inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.
For further information see eSDS.

SECTION 16: Other information

Full text of other abbreviations

DE DFG MAK : Germany. MAK BAT Annex IIa

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Further information

Other information : This safety datasheet only contains information relating to

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by
Commission Regulation (EU) 2020/878



KPS

Version	Revision Date:	SDS Number:	Date of last issue: 11.12.2025
2.6	08.01.2026	600000000019	Date of first issue: 10.03.2016

safety and does not replace any product information or product specification.

These safety instructions also apply to empty packaging which may still contain product residues.

The hazards on the label also apply to residues in the container.

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN