

# DALIAN F.T.Z. GREAT INDUSTRY&TRADE CO., LTD.

ADD: 1207A HUINENG BUILDING DALIAN F.T.Z.CHINA

TEL: 0086-411-3955-2835 FAX: 0086-411-3926-6880

## ◆ Identification of the substance/ preparation

### And of the company/undertaking

#### Identification of the substance or preparation

Trade name: Potassium persulfate

#### Use of the substance/ preparation

Chemical basic material  
For industrial purposes only

#### Company/undertaking identification

Company name: DALIAN F.T.Z.GREAT INDUSTRY & TRADE CO.,LTD.  
Street/POB-No.: 1207A Huineng Building Dalian F.T.Z.China  
Telephone: 0086-411-39552835  
Telefax: 0086-411-39266880

## ◆ Hazards identification

#### Classification according to directive 67/548/EEC:



O



Xn

oxidizing

harmful

O; R8

Contact with combustible material may cause fire.

Xn; R22

Harmful if swallowed.

Xi; R36/37/38

Irritating to eyes, respiratory system and skin.

Sens; R42/43

May cause sensitization by inhalation and skin contact.

#### Classification according EC regulation 1272/2008 (CLP):



#### Danger

STOT SE 3; H335

May cause respiratory irritation.

Skin Irrit. 2; H315

May cause an allergic skin reaction.

Skin Sens. 1; H317

Causes skin irritation.

Resp. Sens. 1; H334

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

Acute Tox. 4; H302

Harmful if swallowed.

Eye Irrit. 2; H319

Causes serious eye irritation.

Ox. Sol. 3; H272

May intensify fire; oxidiser.

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## ◆ Composition/ Information on ingredients

Chemical characterization (substance)

$K_2S_2O_8 = KO_3-O-O-SO_3K$

Potassium Persulfate

CAS-Number: 7727-21-1

EINECS-Number: 231-781-8

RTECS-Number: TT5900000

MDL number: MFCD00011388

## ◆ First-aid measures

- After inhalation: Move victim to fresh air. Make sure he/she is warm and comfortable.  
If the casualty has difficulty breathing, call a doctor immediately. Where appropriate artificial ventilation.  
If victim is at risk of losing consciousness, position and transport on their side.
- In case of skin contact: Take off immediately all contaminated clothing.  
After contact with skin, wash immediately with plenty of water.  
In case of skin reactions, consult a physician.
- After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart.  
Subsequently consult an ophthalmologist.
- After swallowing: Rinse mouth immediately and drink plenty of water.  
Avoid vomiting. Immediately get medical attention.
- Information to physician:  
Treat symptomatically.  
Subsequent observance for pneumonia and lung oedema.  
Monitor electrolytes and renal function.

## ◆ Firefighting measures

- Suitable extinguishing media:  
Product is non-combustible. Extinguishing materials should therefore be selected according to surroundings.
- Special exposure hazards arising from the substance or preparation itself, its combustion products or from resulting gases:  
Oxidizing. Contact with combustible material may cause fire.  
In case of strong heating: Formation of sulphur dioxide.
- Special protective equipment for fire fighters:  
Wear a self-contained breathing apparatus and chemical protective clothing.
- Additional information: Hazchem-Code: 1Z  
Cool endangered containers with water spray and, if possible, remove from danger zone.  
Heating causes rise in pressure with risk of bursting.  
Contaminated fire-fighting water must be collected separately. Do not allow water used to extinguish fire to enter drains, ground or waterways. Treat runoff as hazardous.

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## ◆ Accidental release measures

### Personal precautions:

Wear suitable protective clothing. Avoid contact with the substance.  
Do not breathe dust. Provide adequate ventilation. Keep away from combustible material.

### Measures to protect the environment:

Do not allow to penetrate into soil, waterbodies or drains.  
If necessary notify appropriate authorities.

### Methods for cleaning up: Avoid generation of dust. Take up carefully when dry.

Small quantities: Neutralization with Sodium thiosulphate-solution.  
Place in appropriate containers for disposal. Final cleaning.

### Additional advice:

Never add other substances or waste material to product residue.  
Move product residue to a safe place and dispose of properly.

## ◆ Handling and storage

### Handling

#### Advices on safe handling

Provide adequate ventilation, and local exhaust as needed. Vent dust from the work area.  
Open and handle container with care. Do not allow containers to stand open.  
Avoid contact with skin, eyes, and clothing. Do not breathe dust.

#### Precautions against fire and explosion:

Keep away from sources of ignition - No smoking. Do not weld.

### Storage

#### Requirements for storerooms and containers:

Store container tightly closed in a dry and cool place.  
Store at room temperature. Protect from light and heat.  
Qualified materials: Glass, ceramic, PVC, PE, PP

#### hints on joint storage:

Keep away from combustible material.  
Do not store together with food.

#### Storage class:

5.1B= Oxidising substances

## ◆ Exposure controls / Personal protection

### Exposure limit values

Type	Limit value
Great Britain: WEL-TWA	1 mg/m <sup>3</sup>

#### Additional information:

### Exposure controls

Provide good ventilation and/or an exhaust system in the work area. The substance should only  
Be handled in closed apparatus or systems.  
See also information in chapter section storage.

### Occupational exposure controls

#### Respiratory protection:

In case of dust: Particulates filter P2/P3, identification colour white, according to EN 143.

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Hand protection: Protective gloves according to EN 374.  
Glove material: Nitrile rubber or chloroprene rubber.  
Breakthrough time: >480 min.  
Observe glove manufacturer's instructions concerning penetrability and breakthrough time.

Eye protection: Tightly sealed safety glasses according to EN 166.

Body protection: flame retardant protective clothing

General protection and hygiene measures:  
Take off immediately all contaminated clothing.  
When using do not eat, drink or smoke.  
Wash hands before breaks and after work.  
Safety shower and eye wash station should be easily accessible to the work area.

## ◆ Physical and chemical properties

### Appearance

Physical state: solid  
Colour: white  
Odour: odourless

### Important health, safety and environmental information

Boiling temperature / boiling range (Decomposition)  
Melting point / melting range: (Decomposition) 180 °C  
Flash point / flash point range: not combustible  
Flammability: oxidizing  
Density: at 20 °C: 1,1g/cm<sup>3</sup>  
pH value: at 20 °C, 100 g/L: 4  
Water solubility: at 20 °C: 50g/L  
at 60 °C: 210g/L  
Thermal decomposition: approx. 170 °C

### Additional information

Molecular weight: 270.32g/mol

## ◆ Stability and reactivity

Conditions to avoid: Keep away from heat and sources of ignition. Protect from moisture contamination.  
Materials to avoid: Accelerators, strong acids and bases, heavy metal salts, reduction mediums.  
Avoid impurities(e.g. Rust,dust,ash), risk of decomposition.

Hazardous decomposition products  
Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

Thermal decomposition: approx. 170 °C

Additional information: Method: SADT(UN test H.4)  
Observable decomposition at temperature >60°C(product in delivery form)

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## ◆ Toxicological information

### Toxicological Tests:

Acute toxicity : LD50 Rat, Dose: 825mg/kg  
After inhalation: LC50 Rat  
Exposure time: 1h Dose:>42,9 mg/l  
After swallowing: harmful  
In case of skin contact: strongly irritant  
After eye contact: strongly irritant

## ◆ Ecological information

### Ecotoxicity effects

Toxicity to fish: LC50  
Dose: 76,3mg/l  
Exposure time:96h

Toxicity to bacteria: EC50  
Dose:83.7mg/l  
Exposure time:72/h

Acute and prolonged toxicity for

Aquatic invertebrates: EC50  
Species: Daphnia  
Dose:120mg/l  
Exposure time:48h

Water contaminating class(Germany):

WGK 1 slightly water endangering  
VwVWS(German water pollution authority), appendix

## ◆ Disposal considerations

### Product

Waste key number 160904\* = Oxidising substances

\* = Evidence for disposal must be provided.

Recommendation: Special waste. Dispose of waste according to applicable legislation.

### Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation.

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## ◆ Transport information

### Land transport (ADR/RID)

Warning board: ADR/RID: Kemmler-number 50, UN number 1492  
Product designation: UN 1492, POTASSIUM PERSULPHATE  
ADR/RID: Class 5.1, Code: O2  
Packaging group: III



Hazard label: 5.1  
Limited quantities: LQ12  
EQ: E1  
Contaminated packaging: Instructions: P002 IBC08 LP02 R001  
Contaminated packaging: Special provisions: B3  
Special provisions for packing together: MP10  
Portable tanks: Instructions: T1  
Portable tanks: Special provisions: TP33  
Tank coding: SGAV  
Tunnel restriction code: E

### Sea transport (IMDG)

UN number: 1492  
Proper shipping name: POTASSIUM PERSULPHATE  
IMDG: Class 5.1, Code -  
Packing Group: III  
EmS: F-A, S-Q  
Special provisions: -  
Limited quantities: 5 kg  
EQ: E1  
Contaminated packaging: Instructions: P002, LP02  
Contaminated packaging: Provisions: -  
IBC: Instructions: IBC08  
IBC: Provisions: B3  
Tank instructions: IMO: -  
Tank instructions: UN: T1  
Tank instructions Provisions: TP33  
Stowage and segregation: Category A.  
Properties and observations: White crystals or powder. Soluble in water. Mixtures with combustible material are sensitive to friction and are liable to ignite. Reacts fiercely with cyanides when heated or by friction.  
Marine Pollutant: No

### Air transport (IATA)

UN/ID number: 1492  
Proper shipping name: POTASSIUM PERSULPHATE  
ICAO/IATA: Class 5.1  
Hazard: Oxidizer  
PG: III  
EQ: E1  
Passenger Ltd.Qty.: Y516 - Maximum quantity: 10 kg  
Passenger: 516 - Maximum quantity: 25 kg  
Cargo: 518 - Maximum quantity: 100 kg  
ERG: 5L

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## ◆ Regulatory information

### Labelling (67/548/EEC or 1999/45/EC)

Code letter and hazard symbol:

	O	oxidizing
	Xn	harmful
R phrase(s):	R 8	Contact with combustible material may cause fire.
	R 22	Harmful if swallowed.
	R 36/37/38	Irritating to eyes, respiratory system and skin.
	R 42/43	May cause sensitization by inhalation and skin contact.
S phrase(s):	S 22	Do not breathe dust.
	S 24	Avoid contact with skin.
	S 26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	S 37	Wear suitable gloves.
	S 45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

### Labelling (EU-GHS)

Hazard symbols:



Signal word

l

Hazard Statements

H272	May intensify fire; oxidiser.
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.
Safety precautions	P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
	P220 Keep/Store away from combustible materials.
	P261 Avoid breathing dust.
	P264 Wash hands and face thoroughly after handling.
	P270 Do not eat, drink or smoke when using this product.
	P271 Use only outdoors or in a well-ventilated area.
	P280 Wear protective gloves/protective clothing/eye protection/face protection.
	P285 In case of inadequate ventilation wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362	Take off contaminated clothing and wash before reuse.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

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P312 Call a POISON CENTER or doctor/physician if you feel unwell.  
P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P405 Store locked up.  
P501 Dispose of contents/container to hazardous or special waste collection point.

## National regulations

### National regulations - Great Britain

Hazchem-Code: 1Z

### National regulations - Germany

Storage class: 5.1B= Oxidising substances

Water Hazard Class: 1 = slightly hazardous to water (WGK catalog number 1352)

Incident regulation: Nr. 3

Informations on working limitations:

Observe employment restrictions concerning young persons.

Observe employment restrictions for expectant or nursing mothers.

### National regulations - USA

TSCA Inventory: listed

TSCA HPVC: not listed

NFPA Hazard Rating:

Fire: 0 (Minimal)

Reactivity: 2 (Moderate)

HMIS Version III Rating:

Health: 2 (Moderate)

Flammability: 0 (Minimal)

Physical Hazard: 2 (Moderate)

Personal Protection: X = Consult your supervisor



HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	2
	X

## ◆ Other information

### Group that issues data sheet

Contact person: see chapter 1, department responsible for information.

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.

End of MSDS