

MATERIAL SAFETY DATA SHEET**I - PRODUCT IDENTIFICATION**

Product: Potassium monopersulfate
Synonyms: Peroxymonosulfate
Chemical Family: Peroxygen Salt
CAS Number: 70693-62-8

II - TRANSPORTATION DATA**U.S. Department of Transportation - 49 CFR**

Proper Shipping Name: corrosive solid, acidic, inorganic, NOS
(monopersulfate compound)
Hazard Class/Division Number: 8
ID Number: UN3260
Packing Group: III
Label Required: Corrosive
Placard Required: Corrosive
Emergency Telephone Number: Chemtrec 800-424-9300

International Maritime Organization - IMDG

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(monopersulfate compound)
Hazard Class/Division Number: 8
ID Number: UN3260
Packing Group: III
Label Required: Corrosive
Placard Required: Corrosive
EmS: 8-15
MFAG: 760
Emergency Telephone Number: Chemtrec 202-483-7616 [call collect]

Air Transport

ICAO 3260,8

III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>Chemical or Common Name</u>	<u>CAS Number</u>	<u>EINECS No.</u>
Pentapotassium bis (peroxymonosulphate) bis (sulfate)	70693-62-8	2747787

IV - PHYSICAL/CHEMICAL CHARACTERISTICS

Odor:	none
Appearance:	white
Total acidity:	2.0-3.0 at 20°C at concentration 10.0 g/l
Physical state:	solid
Solubility in Water:	250.0 g/l at 20°C 330.0 g/l at 70°C
Density:	1100.000 bis 1200.000 kg/m ³
Vapor Pressure (mm Hg):	N/A
Boiling Point (@ 760 mm Hg):	N/A
Melting Point:	N/A

V - FIRE AND EXPLOSION HAZARD DATA

Protection Against Fire and Explosion:

Product does not burn, but oxygen release through heat or moisture increases rate of combustion.

Decomposition gases are corrosive.

Flash Point:

N/A

Flammable Limits

LEL: N/A

UEL: N/A

Extinguishing Media:

Water, water mist

VI - REACTIVITY DATA

Symbols of Danger:

C – corrosive

O – oxidizing

Stability:

Unstable Stable

Conditions to Avoid:

Decomposition by caustic materials, combustible substance, moisture and heat

Incompatibility:

Caustic materials, moisture, heat

Contact with combustible material may cause fire

Thermal Decomposition:

SADT approximately 90°C heat accumulation storage test

Hazardous Polymerization:

May Occur Will Not Occur

VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken In Case Material Is Spilled Or Released:

Sweep up. Flush away residues with plenty of water

Waste Disposal Method:

Eliminate in accordance with locally valid waste disposal regulations

Waste disposal number (Germany) 51540

Precautions to Be Taken in Handling and Storage:

The product should be stored in the closed supply container at temperatures below 30°C. Keep away from heat. Keep dry. Keep separated from flammable substances or decomposing agents (alkalis). The usual protective measures for the contact with chemical are recommended.

Product residues must not be returned into the original container

VIII - HEALTH HAZARD DATA

Special Hazards:

Harmful if swallowed

Causes burns

Emergency and First Aid Procedures:

General Advice:

Corrosive to skin, mucous membrane and eyes

Harmful if swallowed

External:

Take off immediately all contaminated clothing. Wash skin with soap and plenty of water. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Internal:

Drink plenty of water. Do not induce vomiting. Consult a physician

IX - CONTROL MEASURES

Exposure Control/Personal Protection:

Skin: protective gloves

Eye: safety goggles or face shield

Hygiene: do not eat, drink or smoke while handling the product

X – TOXICOLOGICAL INFORMATION

General:

Corrosive to skin, mucous membrane and eyes

Harmful if swallowed

Oral:

LD50 Rat: 1204.0 mg/kg

XI – ECOLOGICAL INFORMATION

The product has to be classified as being dangerous to water. Water pollution class I
(Self-classification according to components)
In sewage quick reduction or decomposition to potassium hydrogen sulfate and oxygen

XII – REGULATORY INFORMATION

Labeling According to EEC Directives:

Symbols

C – Corrosive

O – Oxidizing

Phrases:

Contact with combustible material may cause fire

Harmful if swallowed

Causes burns

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

Wear suitable protective clothing, gloves and eye/face protection

In case of accident or if you feel ill, seek medical advice immediately (show the label where possible)

National Regulations

Labelling with reference to Chemikaliengesetz

Labelling with reference to Gefahrstoffverordnung Anhang I/II

Stoffverordnung (Seveso Directive) Anhang III/2, IV classification according to VbF no

Other regulations TRGS 515

Sprengstoffgesetz (Explosives law) no

XIII – ADDITIONAL INFORMATION

ALWAYS COMPLY WITH ALL APPLICABLE INTERNATIONAL, FEDERAL, STATE AND LOCAL REGULATIONS REGARDING THE TRANSPORTATION, STORAGE, USE AND DISPOSAL OF THIS CHEMICAL.

Due to the changing nature of regulatory requirements, the REGULATORY INFORMATION listed in Section XII of this document should NOT be considered all-inclusive or authoritative. International, Federal, State and Local regulations should be consulted to determine compliance with all required reporting requirements.

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