MATERIAL SAFETY DATA SHEET

Potassium perrhenate

Version No.	1.0	**SDS reference number:**	xxx
Initial issue date:	xx-xx-xxxx	**Revision date:**	xx-xx-xxxx

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

1.1 PRODUCT IDENTIFIER
SUBSTANCE NAME: **POTASSIUM PERHENATE**

EC NO.: 233-953-8

IUPAC NAME: Potassium oxido(trioxo)rhenium

REACH REGISTRATION NO.: **TO BE ADDED BY COMPANY**

CAS NO.: 10466-65-6

1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST
RELEVANT IDENTIFIED USES: Use as an intermediate

USES ADVISED AGAINST: None identified

1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET: **TO BE ADDED BY COMPANY**
MANUFACTURER/SUPPLIER:

ADDRESS:

COUNTRY:

TELEPHONE NUMBER:

FAX NUMBER:

EMAIL ADDRESS OF COMPETENT PERSON RESPONSIBLE FOR THE SDS:
1.4 EMERGENCY TELEPHONE NUMBER: **TO BE ADDED BY COMPANY**

SECTION 2. HAZARDS IDENTIFICATION

2.1 CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

2.1.1 CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP/GHS)

Not classified.

2.1.2 CLASSIFICATION ACCORDING TO EC DIRECTIVE 67/548/EEC

Not classified.

2.1.3 ADDITIONAL INFORMATION

2.2 LABEL ELEMENTS:

Labelling in accordance with Regulation EC No 1272/2008 (CLP)

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2.1.3 ADDITIONAL INFORMATION

2.2 LABEL ELEMENTS:

Labelling in accordance with Regulation EC No 1272/2008 (CLP)

PICTOGRAM(S):	None required
SIGNAL WORD:	None required
HAZARD STATEMENT(S):	None required
PRECAUTIONARY STATEMENT(S):	None required

2.3 OTHER HAZARDS

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS-NO	EINECS/ELINCS	WEIGHT % CONTENT
Potassium perrhenate	10466-65-6	233-953-8	99.4% (w/w)

SECTION 4. FIRST AID MEASURES

4.1 DESCRIPTION OF FIRST AID MEASURES

GENERAL NOTES:	In case of accident or if you feel unwell, seek medical advice immediately. Immediately remove any clothing soiled by the product.
FOLLOWING INHALATION:	Supply fresh air; consult doctor in case of complaints.
FOLLOWING SKIN CONTACT:	Immediately wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.
FOLLOWING EYE CONTACT:	Rinse opened eye for several minutes under running water. Then consult a doctor.
FOLLOWING INGESTION:	Rinse out mouth and then drink plenty of water. Call a doctor immediately.
SELF PROTECTION OF THE FIRST AIDER:	No data
4.2 MOST IMPORTANT EFFECTS/SYMPTOMS:	No data
4.3 IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:	No data

SECTION 5. FIREFIGHTING MEASURES

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5.1 EXTINGUISHING MEDIA:	CO_2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire extinguishing methods suitable to surrounding conditions. For safety reasons unsuitable extinguishing agents: Water with full jet.
5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:	In case of fire, the following can be released: Oxygen.
5.3 ADVICE FOR FIRE FIGHTERS	Wear self-contained respiratory protective device. Wear fully protective suit.
ADDITIONAL INFORMATION:	Collect contaminated firefighting water separately. It must not enter the sewage system. Prevent any seepage into the ground.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:	Wear protective equipment. Keep unprotected persons away. Avoid formation of dust. Ensure adequate ventilation.
6.2 ENVIRONMENTAL PRECAUTIONS:	Do not allow to enter sewers/surface or ground water. Do not allow to penetrate the ground/soil.
6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:	Pick up mechanically. Send for recovery or disposal in suitable receptacles.
6.4 REFERENCE TO OTHER SECTIONS:	See section 8 for personal protective equipment.

SECTION 7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING	
PROTECTIVE MEASURES:	Wear protective equipment. Keep unprotected persons away. Prevent formation of dust. Ensure good ventilation/exhaustion at the workplace.
INFORMATION ABOUT FIRE- AND EXPLOSION PROTECTION:	Substance/product is oxidizing when dry.
7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:	
REQUIREMENTS TO BE MET BY STOREROOMS AND VESSELS:	Corrosive action on metals.
INFORMATION ABOUT STORAGE IN ONE COMMON STORAGE FACILITY:	Store away from flammable substances.
FURTHER INFORMATION ABOUT STORAGE CONDITIONS:	Store in a cool place. Store in dry conditions. Keep container tightly sealed.
7.3. SPECIFIC END USE(S):	Use as an intermediate.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 CONTROLS PARAMETERS:

DNELs	WORKERS				CONSUMERS			
ROUTE OF EXPOSURE	ACUTE EFFECT LOCAL	ACUTE EFFECT SYSTEMIC	CHRONIC EFFECT LOCAL	CHRONIC EFFECT SYSTEMIC	ACUTE EFFECT LOCAL	ACUTE EFFECT SYSTEMIC	CHRONIC EFFECT LOCAL	CHRONIC EFFECT SYSTEMIC
Oral	Not required					No data	No data	No data
Inhalation	No data	No data	No data	No data	No data	No data	No data	No data
Dermal	No data	No data	No data	No data	No data	No data	No data	No data

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

PNECs

Freshwater	No data
Freshwater sediment	No data
Marine water	No data
Marine sediment	No data
Intermittent releases	No data
STP	No data
Soil	No data
Air	No data
Secondary poisoning	No data
8.2 EXPOSURE CONTROLS:	No data
8.2.1 APPROPRIATE ENGINEERING CONTROLS:	Ensure good ventilation/exhaustion at the workplace.
8.2.2 PERSONAL PROTECTION:	Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and the skin.
a) EYE PROTECTION:	Tightly sealed goggles.
b) SKIN PROTECTION:	Protective gloves, material of gloves: Nitrile rubber. Penetration time of glove material: >480 min (Thickness of glove material: 0.11 mm)
c) RESPIRATORY PROTECTION:	Use respiratory protective device against the effects of dust/aerosol. Filter P3.
d) BODY PROTECTION:	Protective work clothing

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 BASIC PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Solid (crystalline wet powder)
COLOUR:	Off-white
ODOUR:	Odourless
pH:	No data
BOILING POINT AND BOILING RANGE:	1370°C at 101.325 kPa
MELTING/FREEZING POINT:	550°C at 101.325 kPa
FLASH POINT:	Not applicable
FLAMMABILITY:	Non-flammable
EVAPORATION RATE:	No data
VAPOUR PRESSURE:	Not applicable
DENSITY:	4.887 g/cm^3 at 20ºC
WATER SOLUBILITY:	12.1g/L at 20°C
PARTITION COEFFICIENT: N-OCTANOL/WATER:	Not applicable

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

AUTO-IGNITION TEMPERATURE:	No signs of self-ignition or self-heating
DECOMPOSITION TEMPERATURE:	No data
VISCOSITY:	Not applicable
EXPLOSIVE PROPERTIES:	Not explosive
OXIDISING PROPERTIES:	Not oxidising
9.2 OTHER INFORMATION:	

SECTION 10. STABILITY AND REACTIVITY

10.1 REACTIVITY:	No dangerous reactions known.
10.2 CHEMICAL STABILITY:	**TO BE ADDED BY COMPANY**
10.3 POSSIBILITY OF HAZARDOUS REACTIONS:	No dangerous reactions known.
10.4 CONDITIONS TO AVOID:	To avoid thermal decomposition do not overheat.
10.5 INCOMPATIBLE MATERIAL:	Corrosive action on metals.
10.6 HAZARDOUS DECOMPOSITION PRODUCTS:	Oxygen.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY:	7-day LD50 (mouse, intraperitoneal route): 2800 mg/kg bw
SKIN IRRITATION OR CORROSION:	Not irritating
SERIOUS EYE DAMAGE/IRRITATION:	Not irritating
RESPIRATORY OR SKIN SENSITISATION:	No data
MUTAGENICITY:	No data
CARCINOGENICITY:	No data
REPEATED DOSE TOXICITY:	No data
REPRODUCTIVE TOXICITY:	No data

SECTION 12. ECOLOGICAL INFORMATION

12.1 TOXICITY:

ACUTE TOXICITY:	Algae (OECD 201, *D. subspicatus*):	E_rC50	72 h	241.2	mg/L
	Invertebrates (OECD 202, *D. magna*):	EC50	48 h	>105.89	mg/L
	Fish:	No data			
	Microorganisms:	No data			

SECTION 12. ECOLOGICAL INFORMATION

	Other organisms:	No data
CHRONIC TOXICITY:		No data
	Ecotoxicity results are read across from sodium rhenate, and results expressed as concentration of potassium perrhenate.	
12.2 PERSISTENCE AND DEGRADABILITY:	Not applicable	
12.3 BIOACCUMULATIVE POTENTIAL:	No data	
12.4 MOBILITY IN SOIL:	No data	
12.5 PBT/VPVB ASSESSMENT:	Not applicable	
12.6 OTHER ADVERSE EFFECTS:		

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 WASTE TREATMENT METHODS:	
13.1.1 PRODUCT DISPOSAL:	Contact manufacturer for recycling information. Disposal must be made according to official regulations.
13.1.2 PACKAGING DISPOSAL:	Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

	ADR/RID	AND (R)	IMDG	ICAO/IATA
14.1 UNITED NATIONS (UN) NUMBER:	1479	No data	1479	1479
14.2 UN PROPER SHIPPING NAME:	1479 OXIDIZING SOLID, N.O.S. (Potassium tetraoxorhenate)	No data	OXIDIZING SOLID, N.O.S. (Potassium tetraoxorhenate)	OXIDIZING SOLID, N.O.S. (Potassium tetraoxorhenate)
14.3 TRANSPORT HAZARD CLASS(S):	5.1 Oxidising substances	No data	5.1	5.1
14.4 PACKING GROUP:	II, Labels: 5.1	No data	II, Labels: 5.1, EmS Number: F-A, S-Q	II, Labels: 5.1
14.5 ENVIRONMENTAL HAZARDS:	No data	No data	No data	No data
14.6 SPECIAL PRECAUTIONS FOR USER:	No data	No data	No data	No data
14.7 TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:	No data	No data	No data	No data

SECTION 15. REGULATORY INFORMATION

15.1 SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS:	The product is classified in accordance with EC Regulation 1272/2008 (CLP).
15.2 CHEMICAL SAFETY ASSESSMENT:	Not applicable

SECTION 16. OTHER INFORMATION

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FURTHER INFORMATION:	The SDS has been revised in accordance with EC Regulation 1272/2008 (CLP)
SOURCES OF DATA:	IUCLID dataset
DATE OF ISSUE:	xx-xx-xxxx