

SAFETY DATA SHEET

Revision Date 29-Mar-2024

Revision Number 3

1. Identification

Product Name

Potassium perrhenate

No information available

10466-65-6

Cat No.: RE2575

CAS No Synonyms

Synonyms Recommended Use

Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Stanford Advanced Materials 23661 Birtcher Dr. Lake Forest, CA 92630 USA Tel: (949) 407-8904

Emergency Telephone Number

Tel: (949) 407-8904

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 2 Category 3

Label Elements

Signal Word Danger

Hazard Statements May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ other combustible materials

Take any precaution to avoid mixing with combustibles

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3. Composition/Information on Ingredients

Comp	onent	CAS No	Weight %		
Rhenate (ReO41-)	, potassium, (T-4)-	10466-65-6	99		
	Λ	First-aid measures			
	т.				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.				
Skin Contact		Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention.			
Inhalation	Remove from exposure, lie down. Remove to fresh air. If not breathing, give artificial respiration. Get medical attention.				
Ingestion	Clean mouth	with water. Get medical attention.			

Most important symptoms and	No information available.
effects	
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Dry chemical.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature	No information available
Explosion Limits Upper Lower Oxidizing Properties	No data available No data available Oxidizer

Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Burning produces obnoxious and toxic fumes. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).

Hazardous Combustion Products

None known.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health 2	Flammability 0	Instability 0	Physical hazards OX			
	6. Accidental re	lease measures				
Personal Precautions Environmental Precautions						
Methods for Containment and Up	Clean Sweep up and shovel into material. Keep in suitable, suitable containers for disp	closed containers for disposal	-			
	7. Handling	and storage				
Handling		d eyes. Do not breathe dust. H iate exhaust ventilation. Keep				
Storage.	near combustible materials		iner tightly closed. Do not store d in a dry, cool and well-ventilated Combustible material.			
8	. Exposure controls	/ personal protecti	on			
Exposure Guidelines	This product does not cont	ain any hazardous materials w	vith occupational exposure			

Engineering Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal Protective Equipment	
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
Respiratory Protection	No protective equipment is needed under normal use conditions.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Powder Solid
Appearance	Beige
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	550 °C / 1022 °F
Boiling Point/Range	1370 °C / 2498 °F @ 760 mmHg
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	4.880
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	K O4 Re
Molecular Weight	289.29

10. Stability and reactivity

Reactive Hazard	Yes		
Stability	Oxidizer: Contact with combustible/organic material may cause fire.		
Conditions to Avoid	Incompatible products. Combustible material. Excess heat.		
Incompatible Materials	Strong reducing agents, Combustible material		
Hazardous Decomposition Products None under normal use conditions			
Hazardous Polymerization	No information available.		
Hazardous Reactions	None under normal processing.		

		11. Toxico	ological info	ormation				
Acute Toxicity								
Product Information		No acute toxicity information is available for this product						
Toxicologically Syn		No information ava	ailable					
Products Delayed and immediate effects as well as chronic effects from short and long-term exposure								
Irritation		No information ava	ailable					
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ted any ingredient a	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Rhenate (ReO41-),	10466-65-6	Not listed	Not listed	Not listed	Not listed	Not listed		
potassium, (T-4)-								
Mutagenic Effects		No information ava	ailable					
Reproductive Effec	ts	No information ava	ailable.					
Developmental Effe	ects	No information ava	ailable.					
Teratogenicity		No information available.						
STOT - single exposure STOT - repeated exposure		Respiratory system None known						
Aspiration hazard		No information available						
Symptoms / effects,both acute and delayed		No information available						
Endocrine Disruptor Information		No information available						
Other Adverse Effects		The toxicological p	properties have not	been fully investig	jated.			
12. Ecological information								
<u>Ecotoxicity</u> Do not empty into dra	ains.							
Persistence and De	gradability	Soluble in water Persistence is unlikely based on information available.						
Bioaccumulation/ A	ccumulation	No information available.						
Mobility		Will likely be mobile in the environment due to its water solubility.						
13. Disposal considerations								
Waste Disposal MethodsChemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification				gional, and				
			sport inform	mation				
DOT		Not regulated						
TDG		Not regulated						
<u>IATA</u>		Not regulated						
IMDG/IMO		Not regulated						

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Rhenate (ReO41-), potassium, (T-4)-	10466-65-6	Х	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710) X - Listed '-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Rhenate (ReO41-), potassium,	10466-65-6	-	Х	233-953-8	-	-		-	Х	KE-29182
(T-4)-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and Health Administration	Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	U U	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Rhenate (ReO41-), potassium, (T-4)-	10466-65-6	-	-	-

Not applicable

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Rhenate (ReO41-), potassium, (T-4)-	10466-65-6	Not applicable	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Rhenate (ReO41-), potassium, (T-4)-	10466-65-6	Not applicable	Not applicable	Not applicable	Not applicable

Prepared By	16. Other information Stanford Advanced Materials
	Email: sales@samaterials.com
	www.samaterials.com
Revision Date	29-Mar-2024
Print Date	29-Mar-2024
Revision Summary	New emergency telephone response service provider.

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