

# SAFETY DATA SHEET

Creation Date 24-Jun-2009

Revision Date 14-Feb-2020

**Revision Number** 3

1. Identification				
Product Name	Potassium periodate			
Cat No. :	22896			
CAS-No Synonyms	7790-21-8 Periodic acid (HIO4), potassium salt.; Potassium metaperiodate			
Recommended Use Uses advised against Details of the supplier of the saf	Laboratory chemicals. Food, drug, pesticide or biocidal product use. ety data sheet			
<b>Company</b> Alfa Aesar Thermo Fisher Scientific Chemical 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 <b>Email:</b> tech@alfa.com www.alfa.com	ls, Inc.			

**Emergency Telephone Number** During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789.

# 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.

# Label Elements

Signal Word Danger

#### Hazard Statements

May intensify fire; oxidizer Causes skin irritation Causes serious eye irritation May cause respiratory irritation Category 2 Category 2 Category 2 Category 3



#### 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

Component		CAS-No	Weight %				
Periodic acid (HIO4	), potassium salt	7790-21-8	>95				
	4. Fi	rst-aid measures					
General Advice	If symptoms per	If symptoms persist, call a physician.					
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 plenty of water for at least 15 minutes. If skin irritation persists, call a physician.					
Inhalation	espiration. Get medical attention if						

Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
Most important symptoms and effects	None reasonably foreseeable.
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Oxidizing Properties	Oxidizer

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

# **Specific Hazards Arising from the Chemical**

Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.). Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

# **Hazardous Combustion Products**

### Hydrogen iodide.

### **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 1	Instability 2	Physical hazards OX					
6. Accidental release measures								
Personal Precautions	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.							
<b>Environmental Precautions</b>	Should not be released into	o the environment.						

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed Up containers for disposal.

	7. Handling and storage
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Store under an inert atmosphere. Protect from moisture.

# 8. Exposure controls / personal protection

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Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
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	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties					
Physical State	Powder Solid				
Appearance	White				
Odor	Odorless				
Odor Threshold	No information available				
рН	5.5 0.5% aq.sol				
Melting Point/Range	582 °C / 1079.6 °F				
Boiling Point/Range	No information available				
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	negligible				
Vapor Density	Not applicable				
Specific Gravity	No information available				
Solubility	Insoluble in water				
Partition coefficient; n-octanol/water	No data available				
Autoignition Temperature	No information available				
Decomposition Temperature	No information available				
Viscosity	Not applicable				
Molecular Formula	I K O4				
Molecular Weight	230				

10. Stability and reactivity

Reactive Hazard	Yes
Stability	Oxidizer: Contact with combustible/organic material may cause fire. Hygroscopic.
Conditions to Avoid	Incompatible products. Excess heat. Combustible material. Avoid dust formation. Exposure to moist air or water.
Incompatible Materials	Strong oxidizing agents, Reducing Agent, Strong reducing agents, Combustible material, Amines, Finely powdered metals

Hazardous Decomposition Products Hydrogen iodide							
Hazardous Polymer	ization	Hazardous polymerization does not occur.					
Hazardous Reactior	ardous Reactions None under normal processing.						
		11. Toxico	ological info	ormation			
Acute Toxicity							
Product Information Component Informa Toxicologically Syn Products Delayed and immed	ition ergistic	No information ava		·			
Irritation		Irritating to eyes, r	espiratory system	and skin			
Sensitization		No information ava	ailable				
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.	
Component Periodic acid (HIO4), potassium salt	<b>CAS-No</b> 7790-21-8	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	s	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory syster None known	n				
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	ms / effects,both acute and No information available						
Endocrine Disrupto	r Information	No information ava	ailable				
Other Adverse Effect	cts	The toxicological p	properties have not	been fully investig	jated.		
		12. Ecol	ogical infor	mation			
Ecotoxicity Do not empty into dra	ains.						
Persistence and Deg	gradability	Soluble in water P	ersistence is unlike	ely based on inforn	nation available. In	soluble in water	
Bioaccumulation/ A	ccumulation	No information ava	ailable.				
Mobility		Will likely be mobile in the environment due to its water solubility. Is not likely mobile in the environment due its low water solubility.					
		13. Dispo	sal conside	erations			
Waste Disposal Met	hods	hazardous waste.	enerators must det Chemical waste g s waste regulations	enerators must als	so consult local, reg	gional, and	

#### 14. Transport information DOT **UN-No** UN1479 **Proper Shipping Name** Oxidizing solid, n.o.s. **Hazard Class** 5.1 Packing Group Ш TDG UN1479 UN-No **Proper Shipping Name** Oxidizing solid, n.o.s. **Hazard Class** 5.1 **Packing Group** Ш ΙΑΤΑ UN1479 **UN-No Proper Shipping Name OXIDIZING SOLID, N.O.S.\* Hazard Class** 5.1 Packing Group Ш IMDG/IMO UN-No UN1479 Oxidizing solid, n.o.s. **Proper Shipping Name Hazard Class** 5.1 Packing Group Ш 15. Regulatory information

# United States of America Inventory

Component	CAS-No	TSCA	TSCA Inventory notification - Active/Inactive	TSCA - EPA Regulatory Flags
Periodic acid (HIO4), potassium salt	7790-21-8	Х	ACTIVE	-

### Legend:

**TSCA** - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

# International Inventories

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Periodic acid (HIO4), potassium salt	7790-21-8	Х	-	232-196-0	х	Х	Х	Х	KE-29179

# U.S. Federal Regulations

SARA 313	Not applicable
SARA 311/312 Hazard Categories	See section 2 for more information
CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable
CERCLA	Not applicable

California Proposition 65	This product does not contain any Proposition 65 chemicals.
U.S. State Right-to-Know Regulations	Not applicable
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	
Mexico - Grade	No information available

16. Other information

Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Creation Date	24-Jun-2009
Revision Date	14-Feb-2020
Print Date	14-Feb-2020
Revision Summary	SDS authoring systems update, replaces ChemGes SDS No. 7790-21-8/2.

#### Disclaimer

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

# **End of SDS**