

SAFETY DATA SHEET

Creation Date 26-Sep-2009

Revision Date 24-Dec-2021

Revision Number 5

1. Identification

Product Name

Potassium carbonate sesquihydrate, reagent ACS

Cat No. : P179-500

CAS No **Synonyms**

Potash sesqui; Dipotassium salt of carbonic acid sesquihydrate; Pearl ash sesquihydrate **Recommended Use** Laboratory chemicals. Uses advised against Food, drug, pesticide or biocidal product use.

6381-79-9

Details of the supplier of the safety data sheet

Company Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

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

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

Category 2 Category 2 Category 3

Label Elements

Signal Word Warning

Hazard Statements 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

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 **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 %
Carbonic acid, dipotassium salt, sesquihydrate	6381-79-9	>95
Potassium carbonate	584-08-7	-

4. First-aid measures					
General Advice	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	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.				
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.				
Most important symptoms and effects	. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation				

Notes to Physician

Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media Water spray. Carbon dioxide (CO₂). Dry chemical. Chemical 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
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Potassium oxides.

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.

<u>NFPA</u>	Health	Flammability	Instability 1	Physical hazards N/A				
		-		-				
		6. Accidental re	lease measures					
Personal	Precautions		uipment as required. Ensure a	adequate ventilation. Avoid dust				
Environn	nental Precautions	formation. Should not be released into	o the environment.					
Methods Up	for Containment and Clo	ean Sweep up and shovel into containers for disposal.	suitable containers for disposa	al. Keep in suitable, closed				
		7. Handling	and storage					
Handling	l		Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.					
Storage.			Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Protect from moisture. Incompatible Materials. Acids. Strong oxidizing agents.					
	8. Exposure controls / personal protection							
<u>Exposure</u>	e Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.						
Engineer	ing Measures	Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.						
<u>Personal</u>	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	
Appearance	
Odor	
Odor Threshold	
рН	
Melting Point/Range	
Boiling Point/Range	
Flash Point	
Evaporation Rate	
Flammability (solid,gas)	
Flammability or explosive limits	
Upper	
Lower	
Vapor Pressure	
Vapor Density	
Specific Gravity	
Solubility	
Partition coefficient; n-octanol/water	
Autoignition Temperature	
Decomposition Temperature	
Viscosity	
Molecular Formula	
Molecular Weight	

Powder Solid White Odorless No information available No information available 891 °C / 1635.8 °F No information available No information available No information available No information available No data available No data available

No data available No data available No information available No information available Soluble in water No data available No information available No information available No information available Not applicable C K2 O3 . 1.5 H2 O 165.24

10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Hygroscopic. Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Exposure to moist air or water.	
Incompatible Materials	Acids, Strong oxidizing agents	
Hazardous Decomposition Products	s Carbon monoxide (CO), Carbon dioxide (CO ₂), Potassium oxides	
Hazardous Polymerization	No information available.	
Hazardous Reactions	None under normal processing.	

11. Toxicological information

Acute Toxicity

Product Information Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation				

Potassium carb	onate	> 2000 mg/kg (Ra	> 2000 mg/kg (Rat) LD50 > 2000 mg/kg (Rabbit) LC50 > 4.96 mg/L (Rat)			mg/L (Rat)4.5 h	
Toxicologically Syn Products Delayed and immed	Synergistic No information available mediate effects as well as chronic effects from short and long-term exposure_						
Irritation Irritating to eyes, respiratory system and skin							
Sensitization		No information a	vailable				
Carcinogenicity		The table below	indicates whether	each agency has listed	any ingredient	as a carcinogen.	
Component	CAS N	o IARC	NTP	ACGIH	OSHA	Mexico	
Carbonic acid, dipotassium salt, sesquihydrate	6381-79		Not listed	Not listed	Not listed	Not listed	
Potassium carbonate	584-08-	-7 Not listed	Not listed	Not listed	Not listed	Not listed	
Mutagenic Effects		No information a	No information available				
Reproductive Effect	ts	No information a	No information available.				
Developmental Effe	cts	No information available.					
Teratogenicity		No information a	No information available.				
STOT - single expos STOT - repeated ex		Respiratory syste None known	Respiratory system None known				
Aspiration hazard		No information a	No information available				
Symptoms / effects delayed	s,both acute	e and Ingestion causes perforation					
Endocrine Disrupto	ocrine Disruptor Information No information available						
Other Adverse Effe	cts	The toxicological properties have not been fully investigated.					

12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea
Potassium carbonate	Not I	listed	LC50 <510 mg/L/96h	Not listed	LC50: = 630 mg/L, 48h
			(Pimephales promelas)		(Ceriodaphnia dubia)
Persistence and Degrad	ability	Soluble in wa	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accur	nulation	No information	on available.		
Mobility Will likely be mobile in the environment due to its water solu			due to its water solubility.		
	13. Disposal considerations				
Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.				ocal, regional, and	
14. Transport information					
DOT		Not regulated			
TDG	_ TDGNot regulated				

IATA	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
Carbonic acid, dipotassium salt, sesquihydrate	6381-79-9	-	-	-
Potassium carbonate	584-08-7	Х	ACTIVE	-

Legend:

TSCA US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Carbonic acid, dipotassium salt,	6381-79-9	-	-	-	-	-		Х	-	-
sesquihydrate										
Potassium carbonate	584-08-7	Х	-	209-529-3	Х	Х	Х	Х	Х	KE-29083

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

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
OSHA - 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
	Not applicable N N N

Other International Regulations

Mexico - Grade

No information available

Authorisation/Restrictions according to EU REACH

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)
Carbonic acid, dipotassium salt, sesquihydrate	6381-79-9	Not applicable	Not applicable	Not applicable	Not applicable
Potassium carbonate	584-08-7	Listed	Not applicable	Not applicable	Not applicable

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)
Carbonic acid, dipotassium salt, sesquihydrate	6381-79-9	Not applicable	Not applicable	Not applicable	Not applicable
Potassium carbonate	584-08-7	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	26-Sep-2009 24-Dec-2021 24-Dec-2021 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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