

## **SAFETY DATA SHEET**

#### 1. Identification

**Product identifier** 

#### POTASSIUM CHLORIDE, 98%, TECHNICAL GRADE

Other means of identification		
Product code	2998	
Recommended use	professional, scientific and tech	nical activities: other professional, scientific and technical activities
<b>Recommended restrictions</b>	None known.	
Manufacturer/Importer/Suppl	ier/Distributor information	
Company name	GFS Chemicals, Inc.	
Address	P.O. Box 245	
	Powell	
	ОН	
	43065	
	US	
Telephone	Phone	740-881-5501

	Toll Free	800-858-9682
	Fax	740-881-5989
Website	www.gfschemicals.com	
E-mail	service@gfschemicals.com	
Emergency phone number	Emergency Assistance	Chemtrec 800-424-9300

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2. Hazard(s) identification	n	
Physical hazards	Not classified.	
Health hazards	Not classified.	
OSHA hazard(s)	Not classified.	
No hazards resulting from the	material as supplied.	
Label elements		
Hazard symbol	No symbol.	
Signal word	Not available.	
Hazard statement	Harmful to aquatic life. Harmful to aquatic life	with long lasting effects.
Precautionary statement		
Prevention	Not available.	
Response	Not available.	
Storage	Not available.	
Disposal	Dispose of contents/container to an appropriation applicable laws and regulations, and product of	te treatment and disposal facility in accordance with characteristics at time of disposal.
Hazard(s) not otherwise classified (HNOC)	Not classified.	
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 3
	Hazardous to the aquatic environment, long-term hazard	Category 3
Supplemental information		
Precautionary statement		
Prevention	Avoid release to the environment.	
Disposal	Dispose of contents/container in accordance w	vith local/regional/national/international regulations.

#### 3. Composition/information on ingredients

#### Substances

Chemical name	Common name and synonyms	CAS number	%
POTASSIUM CHLORIDE		7447-40-7	100
Designates that a specific chemica	al identity and/or percentage of composition has be	een withheld as a trade sec	ret.
. First-aid measures			
nhalation	Move to fresh air. Call a physician if symptoms de	evelop or persist.	
kin contact	Wash with soap and water.		
ye contact	Rinse with water. Get medical attention if irritation	n develops and persists.	
ngestion	Get medical advice/attention if you feel unwell.		
lost important ymptoms/effects, acute and elayed	Not available.		
ndication of immediate nedical attention and special reatment needed	Provide general supportive measures and treat sy	mptomatically.	
5. Fire-fighting measures			
uitable extinguishing media	Use extinguishing agent suitable for type of surro	ounding fire. Water.	
nsuitable extinguishing nedia	None known.		
pecific hazards arising from he chemical	None known.		
pecial protective equipment nd precautions for irefighters	Wear full protective clothing, including helmet, se demand breathing apparatus, protective clothing		ure or pressure
ire-fighting quipment/instructions	In the event of fire, cool tanks with water spray.	Water runoff can cause env	vironmental damag
pecific methods	Cool containers exposed to flames with water un	til well after the fire is out.	
. Accidental release mea	isures		
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Local authorit cannot be contained. Keep people away from and ventilation. Wear appropriate personal protective	d upwind of spill/leak. Ensu	
lethods and materials for ontainment and cleaning up	Should not be released into the environment. Thi material, if this is without risk. Collect spillage. So suitable container for disposal. Avoid dust format water. Prevent product from entering drains. Sma clean, dry container and cover loosely; move con section 13 of the MSDS.	veep up or vacuum up spill ion. Following product reco all Dry Spills: With clean sho	age and collect in very, flush area wi ovel place material
invironmental precautions	Contact local authorities in case of spillage to dra drains, water courses or onto the ground. Avoid leakage or spillage if safe to do so. Do not contar	elease to the environment.	
Usedling and starses			
'. Handling and storage			

# Precautions for safe handlingAvoid release to the environment. Do not empty into drains.Conditions for safe storage,<br/>including any<br/>incompatibilitiesStore in a cool, dry place out of direct sunlight.

## 8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
Appropriate engineering controls	General ventilation normally adequate.	
Individual protection measures	s, such as personal protective equipment	
Eye/face protection	Wear chemical goggles.	
Skin protection		
Hand protection	Not normally needed. Gloves are recommended for prolonged use.	
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.	

<b>Respiratory protection</b>	No personal respiratory protective equipment normally required.	
Thermal hazards	Not available.	
General hygiene considerations	Do not breathe dust. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.	

#### 9. Physical and chemical properties

si i nysical ana chenneal properties			
Appearance	Crystalline.		
Physical state	Solid.		
Form	Solid.		
Color	White.		
Odor	Odorless.		
Odor threshold	Not available.		
рН	5.4 - 8.6 (5% aqueous solution)		
Melting point/freezing point	1419.8 °F (771 °C)		
Initial boiling point and boiling range	2732 °F (1500 °C)		
Flash point	Not available.		
Evaporation rate	Not available.		
Flammability (solid, gas)	Not applicable.		
Upper/lower flammability or ex	xplosive limits		
Flammability limit - lower (%)	Not available.		
Flammability limit - upper (%)	Not available.		
Explosive limit - lower (%)	Not available.		
Explosive limit - upper (%)	Not available.		
Vapor density	Not available.		
Relative density	Not available.		
Solubility(ies)	very soluble		
Partition coefficient (n-octanol/water)	Not available.		
Auto-ignition temperature	Not available.		
Decomposition temperature	Not available.		
Viscosity	Not available.		
Other information			
Density	1.98 g/cm3		
Molecular formula	KCI		
Molecular weight	74.55 g/mol		
Specific gravity	1.984		
10. Stability and reactivity			

Reactivity	Not available.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	No hazardous decomposition products are known.

#### **11.** Toxicological information

Inhalation

#### Information on likely routes of exposure

Ingestion	Not available.
Ingestion	Not available.

Due to lack of data the classification is not possible.

Skin contact	Due to lack of data the classification is not possible.
Eye contact	Due to lack of data the classification is not possible.
Symptoms related to the physical, chemical and toxicological characteristics	Not available.

Information	on	toxicological	effects
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Acute toxicity

Product	Species	Test Results
POTASSIUM CHLORIDE (	CAS 7447-40-7)	
Acute		
Oral		
LD50	Guinea pig	2500 mg/kg
	Mouse	383 mg/kg
	Rat	2600 mg/kg
Other		
LD50	Mouse	117 mg/kg
	Rat	39 mg/kg

\* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Due to lack of data the classification is not possible.
Serious eye damage/eye irritation	May irritate eyes. Due to lack of data the classification is not possible.
Respiratory sensitization	Due to lack of data the classification is not possible.
Skin sensitization	Due to lack of data the classification is not possible.
Germ cell mutagenicity	Due to lack of data the classification is not possible.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Reproductive toxicity	Due to lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to lack of data the classification is not possible.
Aspiration hazard	Due to lack of data the classification is not possible.

#### 12. Ecological information

Ecotoxicity

Harmful to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected. Contains a substance which causes risk of hazardous effects to the environment.

		Contains a sub	stance which causes hist of hazardous che	
Product			Species	Test Results
POTAS	SSIUM CHLORIDE (CAS	7447-40-7)		
Α	quatic			
C	rustacea	EC50	Water flea (Daphnia magna)	83 mg/l, 48 hours
Fi	ish	LC50	Western mosquitofish (Gambusia affinis)	435 mg/l, 96 hours

\* Estimates for product may be based on additional component data not shown.

Persistence and degradability	None known.
Bioaccumulative potential	Not available.
Mobility in soil	Not available.
Other adverse effects	Not available.

#### 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This product, in its present state, when discarded or disposed of, is not a hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste. Dilute waste in large quantities of water and flush into sewer connected to wastewater treatment system in compliance with applicable laws and regulations. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations	Not available.		
Hazardous waste code	Not regulated.		
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).		
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.		
14. Transport information	on and a second s		
DOT			
Not regulated as a hazardous	material by DOT.		
IATA			
Not regulated as a dangerous	s good.		
IMDG			
Not regulated as a dangerous	s good.		
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No information available.		
15. Regulatory informat	ion		
US federal regulations	CERCLA/SARA Hazardous Substances - Not applicable.		
	All components are on the U.S. EPA TSCA Inventory List.		
TSCA Section 12(b) Expor	t Notification (40 CFR 707, Subpt. D)		

Not regulated.

#### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not on regulatory list.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and R	eauthorization Act of 1986 (SARA)
Hazard categories	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazardous substance	No
SARA 311/312 Hazardous chemical	No
Other federal regulations	
Clean Air Act (CAA) Section	n 112 Hazardous Air Pollutants (HAPs) List
Not regulated.	
Clean Air Act (CAA) Sectior	112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.	
Safe Drinking Water Act (SDWA)	Not regulated.
Drug Enforcement Adminis Chemical Code Number	tration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and
Not listed.	
Drug Enforcement Adminis	tration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
Not regulated.	
DEA Exempt Chemical Mixt	ures Code Number
Not regulated.	
Food and Drug Administration (FDA)	Total food additive Direct food additive GRAS food additive
US state regulations	California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### US. Massachusetts RTK - Substance List

Not regulated.

## US. New Jersey Worker and Community Right-to-Know Act

- Not regulated.
- US. Pennsylvania RTK Hazardous Substances Not regulated.
- US. Rhode Island RTK

Not regulated.

#### US. California Proposition 65

#### US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance Not listed.

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)		

#### 16. Other information, including date of preparation or last revision

Issue date Version # Further information	September-30-2013 01 Not available.
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<b>Revision Information</b>	Product and Company Identification: Synonyms Composition / Information on Ingredients: Disclosure Overrides