

SAFETY DATA SHEET

1. Identification

Product identifier CONDUCTIVITY STANDARD 25,000 uS/cm

Other means of identification

Product code 2381

Recommended use professional, scientific and technical activities: other professional, scientific and technical activities

Chemtrec 800-424-9300

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name GFS Chemicals, Inc. **Address** P.O. Box 245

> Powell OH

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 Emergency Assistance

number

2. Hazard(s) identification

Physical hazards Not classified. **Health hazards** Not classified. Not classified. OSHA hazard(s)

No hazards resulting from the material as supplied.

Label elements

No symbol. **Hazard symbol** Signal word Not available. **Hazard statement** Not available.

Precautionary statement

Prevention Not available. Response Not available. **Storage** Not available. **Disposal** Not available.

Hazard(s) not otherwise

classified (HNOC)

Not classified.

3. Composition/information on ingredients

Mixtures

Hazardous components

Chemical name	CAS number	%
POTASSIUM CHLORIDE	7447-40-7	1-5

Non-hazardous components

Chemical name	CAS number	%	
WATER	7732-18-5	95-100	

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Unlikely route of exposure as the product does not contain volatile substances.

Skin contact Rinse with water. Material name: CONDUCTIVITY STANDARD 25,000 uS/cm

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Ingestion Drink water as a precaution. Get medical attention if symptoms occur.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

Not available.

5. Fire-fighting measures

Suitable extinguishing media Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Use extinguishing agent

suitable for type of surrounding fire.

Unsuitable extinguishing

media

Specific hazards arising from the chemical Not applicable.

Not available.

Special protective equipment

and precautions for

firefighters

Wear suitable protective equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Not available.

Methods and materials for containment and cleaning up

This product is miscible in water. Stop the flow of material, if this is without risk.

Large Spills: Dike the spilled material, where this is possible. Flush into sewer with plenty of water.

Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the

MSDS.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not contaminate water.

7. Handling and storage

Precautions for safe handling Avoid release to the environment.

Conditions for safe storage,

including any incompatibilities

Keep containers tightly closed.

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, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Not normally needed.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Not available.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance Clear.
Physical state Liquid.

Form Aqueous solution.

ColorColorless.OdorOdorless.Odor thresholdNot available.

pH 6 - 8

Melting point/freezing point < 32 °F (< 0 °C)Initial boiling point and > 212 °F (> 100 °C)

boiling range

Flash point

Evaporation rate

Not available.

Not available.

Not applicable.

Not applicable.

Upper/lower flammability or explosive limits

(%)

Flammability limit -

Flammability limit - lower

upper (%)

Not available.

Not available.

Explosive limit - lower

(%)

Not available.

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Explosive limit - upper

(%)

Not available.

Vapor densityNot available.Relative densityNot available.Solubility(ies)Miscible.Partition coefficientNot available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Density 1.01 g/cm3 estimated

Percent volatile > 95 %

Specific gravity 1.01 estimated

10. Stability and reactivity

Reactivity Not available.

Chemical stability Material is stable under normal conditions. **Possibility of hazardous** Hazardous polymerization does not occur.

reactions

None under normal conditions.

Incompatible materials None known.

Hazardous decomposition

Conditions to avoid

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Ingestion Based on available data, the classification criteria are not met.

InhalationDue to lack of data the classification is not possible.Skin contactDue to lack of data the classification is not possible.Eye contactDue to lack of data the classification is not possible.

Symptoms related to the physical, chemical and toxicological characteristics

Not available.

Information on toxicological effects

Acute toxicity

Product	Species	Test Results	
CONDUCTIVITY STANDAR	D 25,000 uS/cm (CAS Mixture)		
Acute			
Oral			
LD50	Guinea pig	99999 mg/kg	
	Mouse	31917 mg/kg	
	Rat	99999 mg/kg	
Other			
LD50	Mouse	9750 mg/kg	
	Rat	2600 mg/kg, estimated	
Components	Species	Test Results	
POTASSIUM CHLORIDE (C	AS 7447-40-7)		
Acute			
Oral			
LD50	Guinea pig	2500 mg/kg	

Acute		
Oral		
LD50	Guinea pig	2500 mg/kg
	Mouse	383 mg/kg
	Rat	2600 mg/kg
Other		
LD50	Mouse	117 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.

Rat

Serious eye damage/eye

irritation

May irritate eyes. Due to lack of data the classification is not possible.

39 mg/kg

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 Due to lack of data the classification is not possible. - single exposure Specific target organ toxicity Due to lack of data the classification is not possible.

- repeated exposure

Aspiration hazard Due to lack of data the classification is not possible.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity Contains a substance which causes risk of hazardous effects to the environment.

Components		Species	Test Results
Fish	LC50	Fish	80917 mg/l, 96 hours
	LC50	Daphnia	59870 mg/l, 6 days
Crustacea	EC50	Daphnia	27396 mg/l, 48 hours
CONDUCTIVITY STAN	DARD 25,000 uS/c	m (CAS Mixture)	
Product		Species	Test Results

POTASSIUM CHLORIDE (CAS 7447-40-7)

Aquatic

Crustacea EC50 Water flea (Daphnia magna) 83 mg/l, 48 hours Fish LC50 Western mosquitofish (Gambusia affinis) 435 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential Not available. Mobility in soil Not available.

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^{*} Estimates for product may be based on additional component data not shown.

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Wash to drains with lots of water. Dispose in accordance with all applicable regulations.

Local disposal regulations Not available. Hazardous waste code Not regulated.

Waste from residues / Dispose of in accordance with local regulations. Empty containers or liners may retain some unused products

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.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

TATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

15. Regulatory information

US federal regulations CERCLA/SARA Hazardous Substances - Not applicable.

All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export 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 Reauthorization 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 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and **Chemical Code Number**

Not listed.

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Not regulated.

DEA Exempt Chemical Mixtures Code Number

Not regulated.

Food and Drug

Not regulated.

Administration (FDA)

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.

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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 October-04-2013

Version # 01

Further information Not available.

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

> available. The information given is designed only as a quidance 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.

Revision Information Product and Company Identification: Product Codes

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties

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