

Environmental Instruments/Water Analysis
166 Cummings Center
Beverly, MA 01915-6199 USA
Telephone 978-232-6000

MATERIAL SAFETY DATA SHEET

I. PRODUCT IDENTIFICATION

Product Name: 1413 µS/cm, 692 ppm as NaCl Conductivity/TDS Standard	Orion No. 011007	Effective Date 1/1/04
Hazardous Shipment Labeling: DOT None	IATA None	
Prepared By Approved By <i>John E. Meserve</i>	Title Quality Assurance Manager	

II. HAZARDOUS INGREDIENTS (IDENTIFY INFORMATION)

Hazardous Components * Specific Chemical Identity: Common Name(s)	CAS NO.	%	OSHA PEL	ACGIH TLV	LD ₅₀ mg/Kg
Potassium Chloride (KCl)	7447-40-7	<1	None Listed	None Listed	383 (ORL-MUS)
***Deionized Water (H ₂ O)	7732-18-5	>99	None Listed	None Listed	190,000 (IPR-MUS)

III. PHYSICAL DATA

Boiling Point 750mm Hg	100°C	Freezing Point	0°C
Specific Gravity (H₂O=1)	1.0	Vapor Pressure @ 25°C	NA**
pH @ 25°C	5.0 - 7.5	Solubility In Water, % by Wt @ 25°C	Miscible
Volatiles % By Wt.	NA	Evaporation Rate (BUTYL, ACETATE = 1)	NA
Vapor Density (AIR = 1)	NA		
Appearance and Odor	Clear, odorless, colorless solution		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash Point (Test Method) Not flammable	Autoignition Temperature NA
Flammable Limits in air, % by volume:	Lower NA Upper NA
Extinguishing Media Dry chemical, water, foam, or CO ₂	
Special Fire-Fighting Procedures None	
Unusual Fire and Explosion Hazards None	

*Chemicals which are not classified as hazardous per U.S. OSHA guidelines (29CFR Parts 1915.2 or 1916.2) or the Massachusetts Substance List (105CMR670.000 Appendix A) will not necessarily be listed on this form even though one or more may be a constituent of this product
** NA Not available/not applicable
*** Non-hazardous component

Liability is expressly disclaimed for any loss or injury arising out of the use of this information or the use of any materials designated. Safe use of the materials is the responsibility of the user.

Document No. 223267-001
Rev. F

Printed in U.S.A.
Form MSDS/1192

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: 1413 $\mu\text{S/cm}$, 692 ppm as NaCl
Conductivity/TDS Standard

Orion No.: 011007

V. REACTIVITY DATA

Stability:		Conditions to Avoid	
Unstable	Stable X	None	
Incompatibility (Materials to avoid) None, suitable for any general storage.			
Hazardous Decomposition Products None			
Hazardous Polymerization:		Condition to Avoid	
May Occur	Will Not Occur X	None	

VI. HEALTH HAZARD DATA

Route(s) Of Entry:	Inhalation?	Skin?	Ingestion?
	No	No	No
Health Hazards (acute and chronic) Because of the low concentration of salt (less than 1%), this product is not considered hazardous.			
Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
Not found on these lists			
Signs and Symptoms of Exposure None reported.			
Medical Conditions Generally Aggravated by Exposure		May cause stinging or irritation in an open cut.	
Emergency And First Aid Procedures Wash off skin or eyes with water.			

VII. PRECAUTIONS (SAFE HANDLING AND USE)

Steps To be Taken In Case Material Is Released or Spilled Clean up and wash down drain.
Waste Disposal Method Wash down drain. Observe all Federal, State and local laws.
Precautions To Be Taken In Handling and Storing Store at room temperature to protect product integrity. <u>NFPA Rating:</u> Scale (0-4); Health - 0, Fire - 0, Reactivity - 0, Specific - None
Other Precautions SARA TITLE III: KCl does not appear on any of the SARA lists. Not found on <u>CAL. Prop 65</u> . Reported in EPA <u>TSCA</u> inventory.

VIII. CONTROL MEASURES

Respiratory Protection (specify type) None	
Ventilation	Special
Local Exhaust None	None
Ventilation	Other
Mechanical (General) None	None
Protective Gloves	Eye Protection
Not required.	Safety glasses
Other Protective Clothing Or Equipment Not required	
Work/Hygienic Practices No special requirements	