

1. Product and Supplier Information

Product Name(s): Traceable® Conductivity Standard **Date:** December 2009
Product Number(s): 4066, 4067, 4068, 4069, 4161, 4162, 4173, 4174, 4176, 4177, 4178, 4179, 4566, 4567, 4568, 4569, 4573, 4580, 4581

Supplier: Control Company Phone: 281-482-1714
 Drawer 58307 Fax: 281-482-9448
 Houston, TX 77258 email: sales@control3.com

Product Information: 281-482-1714
 Transportation Emergency: 800-424-9300 (Chemtrec)
 International Call 703-527-3887 (collect calls accepted)

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

2. Composition and Information on Ingredients

CAS #	SARA 313		Material or Component	%	RQ#	Exposure Limits		
	On?	Dm*				TWA*	STEL*	WEEL*
7447-40-7	No	NA	Potassium Chloride	<8	None	Not established		NA
67-63-0	No	No	1-Propanol A3	<2	None	200 ppm	400 ppm	NA
7732-18-5	No	No	Water	>90	None	Not established		NA

No component is listed in "Threshold and Biological Exposure Indices for 2005" from ACGIH except as noted above.

Components listed in Title III Sec. 313 (EPCRA) are indicated by "Yes" above.

*TWA= Time Weighted Average; STEL= Short Term Exposure Limit; WEEL= Workplace Employee Exposure Level

NE= Not Established A4= Not Classifiable as a Human Carcinogen BEI+ Biological Exposure Index exists for this material.

Dm= De minimus A3 = Confirmed Animal carcinogen with Unknown Relevance to Humans.

3. Hazards Identification

OSHA Hazard Classification: Not a hazard.

Routes of Entry: Skin, eyes, Inhalation, ingestion

Chemical Interactions: Electrolytic nature of these solutions may cause slight transient eye irritation.
 Electrolytic nature of these solutions may enhance corrosion of various metals.

Medical Conditions Aggravated: No information.

Human Threshold Response Data

Odor Threshold: Not established **Irritation Threshold:** Not established

Hazard Category Classifications and Ratings

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8,
Immediate	Yes	No	No	No	OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Delayed	No	No	No	No	
HMIS Hazard Ratings: Health 1 Fire 0 Instability 0 Other NA					
NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA					
Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4					

Notice: HMIS and NFPA ratings involve the subjective evaluation of the hazardous aspects of individual components, and can differ between preparers. They are intended and useful only as a rapid, general identification of the approximate magnitude of the specific hazards rated.

Immediate (Acute) Health Effects

Inhalation Toxicity: Not a significant hazard. Skin Contact: Not a significant hazard.
 Inhalation Irritation: Not a significant hazard. Skin Absorption: Not a significant hazard.
 Eye Contact: Liquid may cause transient eye irritation, tearing and a burning sensation.
 Ingestion Irritation: Not a significant hazard. See Sec. 11.
 Ingestion Toxicity: Not a significant hazard. See Sec. 11.

Acute Target Organ Toxicity: Not a significant hazard.

Prolonged (Chronic) Health Effects

Carcinogenicity: None.

Reproductive and Developmental Toxicity:

No known effects on humans. Mutagenic effects observed on bacteria and laboratory animals.

Sensitization: None known.

Inhalation: Not a significant hazard. Ingestion: Not a significant hazard.

Skin Contact: Prolonged or repeated skin exposure may cause chapping or dermatitis, similar to water.

Skin Absorption: Not a significant hazard.

General : Not a significant hazard.

Chronic Target Organ Toxicity: None.

Supplemental Health Hazard Information No additional health information available.

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4. First Aid

Inhalation:

Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate. Seek medical attention at once.

Skin Contact:

Flush skin with water for 15 minutes and remove contaminated clothing. Wash shoes and clothing before reuse.

Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids apart.

Ingestion:

Immediately drink water to dilute. Induce vomiting. Consult a physician immediately.

Never give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flammability Summary (OSHA): Not flammable.

Flammable Properties:

Flash Point: None

Autoignition Temperature: ND

Upper Flammable/Explosive Limit, % in : NA

Lower Flammable/Explosive Limit, % in : NA

Fire/Explosion Hazards: Not a hazard.

Extinguishing Media: Does not support combustion. Use equipment appropriate to the main cause of the fire.

Do not allow contaminated water to enter sewers or waterways.

Fire Fighting Instructions: Use water to cool containers.

Hazardous Combustion Products: Hydrochloric acid vapors may be formed in a fire.

6. Accidental Release Measures

Personal Protection for Emergency Situations:

Contain the release and eliminate its source if this can be done safely.

Spill Mitigation Procedures**Air Release:**

Not a hazardous event.

Water Release:

This material is soluble in water. Contain all liquid for treatment and/or disposal as a (potential) hazardous waste. Notify all downstream users of possible contamination.

Land Release:

Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container.

Contain all contaminated water for disposal and/or treatment.

Additional Spill Information:

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel.

7. Handling and Storage

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash with water. Avoid breathing vapor, mist or gas.

Storage: Keep container closed when not in use.

Shelf Life Limitations: See label or certificate of analysis for shelf life if applicable.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

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8. Exposure Controls and Personal Protection

Ventilation:

Normal workplace ventilation is satisfactory.

Protective Equipment for Routine Use of Product

Respiratory Protection:

Not required.

Respirator Type(s):

Not required.

Skin: Wear impervious gloves (butyl rubber, Viton, e.g.) to avoid skin contact. Follow good industrial hygiene practices.

Eyes: Use chemical safety glasses with side shields, safety goggles and/or a full face shield where splashing is possible

Protective Clothing Type: Impervious

Other: None

Exposure Limit Data : See Section 2

Chemical Name: NIOSH Level Immediately Dangerous to Life or Health:

No data on product.

9. Physical Data

Physical State: Liquid
Color: Colorless
Odor: Nil

Molecular Weight: Not applicable
pH (@ 25 Deg. C): Not determined
Octanol/Water Coeff: No data

Solubility in Water: 100%
Bulk Density: Not applicable
Specific Gravity: Variable

Vapor Density (Air = 1): Not determined
Vapor Pressure: (@ 20 Deg. C): Not determined
Evaporation Rate (Butyl acetate =1 NA)

Volatiles % by vol.: Not applicable
Boiling Point: Not determined
Freezing Point: Not determined

10. Stability and Reactivity

Stability and Reactivity Summary:

Stable under normal conditions.

Reactive Properties:

Sensitivity to mechanical shock: None
Hazardous Polymerization: Will not occur
Conditions to Avoid: High temperatures, exposure to heat.
Chemical Incompatibility: See Sec. 3.
Incompatible materials: May speed corrosion of some metals and alloys.
Hazardous Decomposition Products: Hydrochloric acid may be formed if the product burns.
Decomposition Temperature: No data
Product May Be Unstable At Temperatures Above: No data

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11. Toxicological Information

Component Animal Toxicology:	Potassium Chloride	Isopropanol
Oral LD50 mg/kg value:	383 (mus); 2600 (rat); 2500 (ppg)	3600 (mus), 5045 (rat) 6410 (rbt) 4797 (dog)
Dermal LD50 mg/kg value:	No data.	12800 (rbt)
Inhalation LC50 ppm value:	No data.	16000/8hr (rat)
Skin Irritation:		
This material is expected to be non to slightly irritating.		
Eye Irritation:		
This material is expected to be moderately irritating.		
Reproductive and Developmental Toxicity:		
Has been found in animal studies.		
Component Data:		
All data refer to potassium chloride.		
Mutagenicity: Has been found in animal studies.		
Carcinogenicity: No rating.		

12. Ecological Information

Ecological Toxicity Values:
 No relevant data found.

Environmental fate: No potential for food chain concentration.

Environmental Toxicity No data.

13. Disposal Considerations

No data provided.

14. Transportation Information

No data provided.

15. Regulatory Information

No data provided.

16. Additional Information

THE PURPOSE OF THIS MSDS IS TO PROVIDE SAFE HANDLING INFORMATION FOR USERS OF THE PRODUCT. IT IS NOT INTENDED TO, NOR DOES IT, PROVIDE COMPLETE OR EXTENSIVE TRANSPORTATION, DISPOSAL, REGULATORY OR TOXICOLOGICAL DATA ON THE PRODUCT OR ITS COMPONENTS. USERS WHO REQUIRE THIS INFORMATION ARE REFERRED TO RELEVANT LOCAL, STATE AND FEDERAL REGULATIONS FOR THE INGREDIENTS OF INTEREST.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE ACCURATE, RELIABLE, AND UP TO DATE, BUT MAKE NO WARRANTY THAT IT IS.

IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.

THE POSSESSOR OF THIS MATERIAL HAS THE RESPONSIBILITY TO INSURE THAT IT IS USED, HANDLED, STORED, TRANSPORTED AND DISPOSED OF IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL REGULATIONS

MSDS data source: Alfa-Aesar 4/16/2003