



MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Catalog Number(s):

CDS-1, CDS-5, CDS-10, CDS-15, CDS-45, CDS-50, CDS-150, CDS-450, CDS-500, CDS-1000, CDS-1500, CDS-4500, CDS-15000, CDS-20000, CDS-45000, CDS-75000, CDS-150000

Product Identity:

CONDUCTIVITY STANDARD SOLUTIONS

2. Composition Information

Component	CAS Registry #	Percent Concentration	Exposure Limits	
			ACGIH TLV	OSHA PEL
Potassium Chloride	7447-40-7	< 13	N/A	N/A
Water, Deionized	7732-18-5	Balance	N/A	N/A

3. Hazards Identification

EMERGENCY OVERVIEW

Clear, colorless liquid. Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards.

POTENTIAL HEALTH EFFECTS:

TARGET ORGANS: eyes, skin.

EYE CONTACT: May cause irritation.

INHALATION: Not likely to be hazardous by inhalation.

SKIN CONTACT: May cause slight irritation.

INGESTION: Large doses may cause stomach upset.

CHRONIC EFFECTS / CARCINOGENICITY:

IARC – No

NTP – No

OSHA – No

TERATOLOGY (BIRTH DEFECT) INFORMATION:

Mutation data cited in 'Registry of Toxic Effects of Chemical Substances' for Potassium Chloride.

REPRODUCTION INFORMATION:

No information found in "Registry of Toxic Effects of Chemical Substances" or other information sources.

4. First Aid Measures – In all cases, seek qualified evaluation.

EYE CONTACT: Irrigate immediately with large quantity of water for 15 minutes. Call physician.

INHALATION: Remove to fresh air. Give artificial respiration if necessary. Call physician.

SKIN CONTACT: Flush with plenty of water for at least 15 minutes. Call physician.

INGESTION: Dilute with water or milk. Call physician.

5. Fire and Explosion Hazard Data

FLAMMABLE PROPERTIES:

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS:

LFL: N/A

UFL: N/A

EXTINGUISHING MEDIA: Use any means suitable for extinguishing surrounding fire.

FIRE & EXPLOSION HAZARDS: Not considered to be a fire or explosion hazard.

FIRE FIGHTING INSTRUCTIONS: Use normal procedures/instructions.

FIRE FIGHTING EQUIPMENT: Use protective clothing and breathing equipment appropriate for the surrounding fire.

6. Accidental Release Measures

Absorb with suitable material (paper towels, etc.) and dispose of in accordance with local regulations. Small amounts may be flushed to the sewer with plenty of water.

7. Handling and Storage

As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store in a cool, well-ventilated area. Keep caps tightly closed and container in upright position. Separate from all strong oxidizers. SAFETY STORAGE CODE: GENERAL



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8. Exposure Controls / Personal Protection

ENGINEERING CONTROLS: No specific controls are needed. Normal room ventilation is adequate.
RESPIRATORY PROTECTION: Normal room ventilation is adequate.
SKIN PROTECTION: Chemical resistant gloves are recommended.
EYE PROTECTION: Safety glasses or goggles.

9. Physical and Chemical Properties

APPEARANCE: Clear, colorless liquid	pH: approximately 7
ODOR: Odorless	BOILING POINT (OC): approximately 100
SOLUBILITY IN WATER: Infinite	MELTING POINT (OC): approximately 0
SPECIFIC GRAVITY: approximately 1.0 – 1.04	VAPOR PRESSURE: N/A

10. Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions of use and storage.
INCOMPATIBILITY: Bromine Trifluoride, Potassium Permanganate plus Sulfuric Acid.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Potassium.
HAZARDOUS POLYMERIZATION: Will not occur.

11. Toxicological Information

LD50, Oral, Rat: 2600 mg/kg (Potassium Chloride), details of toxic effects not reported other than lethal dose value. Irritation: eye, rabbit (500mg/24 hr mild).

12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No information found.
CHEMICAL FATE INFORMATION: No information found.

13. Disposal Considerations

Dilute with water and flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Always dispose of in accordance with local, state and federal regulations.

14. Transport Information (Not meant to be all inclusive)

D.O.T. SHIPPING NAME: Not regulated
D.O.T. HAZARD CLASS: None
U.N. / N.A. NUMBER: None
PACKING GROUP: None
D.O.T. LABEL: None

15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.
TSCA STATUS: All components of this solution are listed on the TSCA Inventory.
CERCLA REPORTABLE QUANTITY: Not reportable
SARA TITLE III:
SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No
SECTION 311/312 HAZARDOUS CATEGORIES: No
SECTION 313 TOXIC CHEMICALS: No
RCRA STATUS: No
CALIFORNIA PROPOSITION 65: Not listed

16. Other Information

NFPA® Ratings: Health: 0	Flammability: 0	Reactivity: 0	Special Notice Key: None
HMIS® Ratings: Health: 0	Flammability: 0	Reactivity: 0	Protective Equipment: B (Protective eyewear, gloves)

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