

1. Identification

Name of the product: **Traceable Conductivity Standard** SDS Code: CC TCS 4065
Product Identification Numbers: 4065, 4175, 4270, 4271, 4274, 4565, 4570, 4574, 4170, 4172
Recommended use: Calibration and storage of conductivity meters/probes
Use not recommended: Any use which involves bodily contact or ingestion.
Company: **Control Company**
12554 Old Galveston Rd, Suite B230 Telephone: 800-342-3577
Webster, TX 77598 Fax number: 580-327-3579
Product Information: 281-482-1714 CHEMTREC (Transportation): 1-800-424-9300
CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

2. Hazard(s) identification**Emergency Overview**

OSHA Hazards

Flammable liquid, Target Organ Effect, Irritant

Other hazards which do not result in classification are: May form explosive peroxides.

GHS Classification

Flammable liquids (Cat. 2)	H225	Highly flammable liquid and vapor.
Skin irritation (Cat. 3)	H315	Causes skin irritation.
Eye irritation (Cat. 2A)	H320	Causes eye irritation.
Target Organ Toxicity, Single Exposure (Cat.3)	H335	May cause respiratory irritation
	H336	May cause drowsiness or dizziness

GHS Label elements, including precautionary statements

Pictogram:



Signal word: **Warning**

Hazard statements:

H225 Highly flammable liquid and vapor.
H315 Causes skin irritation.
H320 Causes eye irritation.
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary statements:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P370+P378 IN CASE OF FIRE: Use appropriate media to extinguish.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL or doctor.
P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.

3. Composition / Information on ingredients

Chemical identity: 1-Propanol 30%
Common name: n-Propanol
Numbers of identity: CAS. 71-23-8 EC 200-746-9
Chemical identity: Potassium chloride <0.01%
Common name: Potassium chloride
Numbers of identity: CAS 7447-40-7 EINECS 231-211-8
Impurities: None of toxicological significance.

4. First-aid measures

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN with water.
P305 + P351 + P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CONTROL or doctor.
P301+330+331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Most important symptoms and effects, both acute and delayed: Severe eye irritation. Skin irritation.

5. Firefighting measures**Suitable extinguishing equipment:**

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Emergency procedures:

Eliminate ignition source. Evacuate unnecessary personnel. Call appropriate fire fighting crew.
Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.
Hazardous decomposition products formed under fire conditions. - Carbon oxides, ammonia, nitrogen oxides.
Use water spray to cool unopened containers.

6. Accidental release measures

Use personal protective equipment. Avoid breathing, mist or vapors. Ensure adequate ventilation.
Remove all sources of ignition. Evacuate personnel to safe areas. Be aware of possible accumulating vapors which could form explosive concentrations. Vapors can accumulate in low areas.
Environmental precautions:
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and materials for containment and cleaning up
Contain spillage, and then absorb with industrial absorbent, or collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.
See also Sec. 13.

7. Handling and storage**Precautions for safe handling:**

Avoid contact with skin and eyes. Avoid inhalation of vapors or mist.
Use explosion-proof equipment. Keep away from sources of ignition - No smoking.
Prevent the build up of electrostatic charge.

Conditions for safe storage:

Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Containers which have been opened must be resealed and kept upright to prevent leakage.

8. Exposure controls / personal protection

Information on the system design:

Exposure Limits:	Reference 29CFR 1910.1000 Table Z-1	
Component Name, CAS#	OSHA PEL	ACGIH TLV
1-Propanol 71-23-8	200 ppm	100 ppm

Personal protective equipment

Respiratory protection: Where appropriate use a full-face supplied air respirator.
Hand protection: Rubber gloves.

Eye protection: Safety glasses with side-shields.
Skin and body protection: Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely; flame retardant and antistatic properties are recommended.
Hygiene measures Handle in accordance with good industrial hygiene and safety practice.
Wash hands and face before breaks and immediately after handling the product.

9. Physical and chemical properties

Appearance: Clear, colorless liquid
Odor: Alcoholic solvent
Odor threshold: No data available
pH-value: Approx. 7-9
Melting point: no data available
Freezing Point: no data available
Initial boiling point: no data available
Flash point: 35 °C
Evaporation rate: no data available
Flammability (solid, gas): Not applicable
Explosion limits: Lower: 2.1 V% Upper: 13.7V% (Isopropyl alcohol)
Vapor pressure: (highest partial vapor pressure) at 20°C: Not available
Vapor density: Not available
Relative density (water=1.00): no data available
Solubility: Totally soluble in water at 20°C
Partition coefficient: Log Kow = Not applicable to mixture.
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Like water

10. Stability and reactivity

Chemical stability: No decomposition, if used according to specifications.
Possibility of hazardous reactions: May form explosive mixture with air.
Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.
Materials to avoid: Aluminum, Acids, Oxidizing agents, Halogenated compounds, Acid anhydrides
Hazardous decomposition products: Carbon oxides, product vapors.

11. Toxicological information

There is no data available for the product.

Routes of Entry: Absorbed through skin. Eye contact. Inhalation.

Oral Toxicity LD 50: 1-Propanol
Rat 8,038 mg/kg
Dermal Toxicity LD 50: Rabbit 4,000 mg/kg
Inhalation Toxicity, LC50: Rat 20000 ppm, 1 hr
Eye Irritation (Rabbit) Severe irritation
Dermal Irritation (Rabbit) No irritation

Chronic Effects on Humans:

No component >0.1% is listed by NTP, IARC, OSHA or ACGIH as a suspect or potential carcinogen.

California Prop. 65 chemicals: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Contains material which may cause damage to the following organs: kidneys, liver, CNS,

Signs and Symptoms of Exposure: Central nervous system depression, prolonged or repeated exposure can cause:, nausea, dizziness, narcosis or drowsiness.

12. Ecological information

Ecotoxicity: Not available for the product. BOD and COD: Not available.

Ecotoxicity: 1-Propanol

Toxicity to fish: LC50 - Pimephales promelas (fathead minnow) - 4,555 mg/l - 96 h

Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 3,642 mg/l - 48 h

Products of Biodegradation:

The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Mobility in soil: No data available

Results of PBT and vPvB assessment:

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

13. Disposal considerations

Product as made has the characteristic of ignitability, like " Unlisted Hazardous Waste D001", RQ 100#.

Burn in a chemical incinerator equipped with an afterburner and scrubber.

Dispose in accordance with local, state and federal regulations.

14. Transport information

DOT (US) Proper shipping name:

UN1274 n-Propanol solution, 3

Packing group: III

Reportable Quantity (RQ): Not possible in one non bulk package

Marine pollutant: No

The description shown may not apply to all shipping situations. Consult 49CFR, OSHA or appropriate Dangerous Goods Regulations, for additional description requirements (e.g., technical name, labeling) and mode-specific or quantity-specific shipping requirements,

15. Regulatory information

OSHA Hazards: Hazard Communication Standard (29 CFR 1910.1200).

Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components: None

SARA 313 Components: None

Inventory Status: All components are on TSCA, EINECS/ELINCS, AICS, and DSL.

Federal and State Regulations:

State Right to Know lists (RTK): n-Propanol : MA, PA, NJ

Water: Ma, PA, NJ

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Flammable liquid, Target Organ Effect, Irritant

WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B:

CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B:

Material causing other toxic effects: None

California Prop. 65 Components: This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. Other information

SDS Preparation date: September 12, 2017

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference
Immediate	Yes	Yes	No	No	OSHA 29 CFR 1910.1200 and
Delayed	Yes	No	XXX	XXX	SARA 302/311/312/313.

HMIS Hazard ratings: Health 2 Fire 3 Instability 0 Other B (Goggles, gloves)

Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

HMIS® is a registered trade and service mark of the NPCA.

Note: The information in this SDS was obtained from current reputable and competent sources.

However, the data is provided without warranty, expressed or implied, regarding its correctness or accuracy.

It is the user's responsibility to determine safe conditions for the use of this product and to assume liability for loss, injury, damage or expense resulting from improper use of this product.

This MSDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is a greater potential for large-scale or prolonged exposure, in accordance with requirements of the U.S. Government's Occupational Safety and Health Administration (OSHA).