1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name	Traceable® Conductivity Standard
Product Number(s)	4065, 4565, 4175, 4270, 4570, 4271, 4274, 4574, 4170, 4172
Pure Substance/mixture	Mixture

093281

093287
093289

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Calibration and storage of conductivity meters/probes
Uses advised against	Any use which involves bodily contact or ingestion.

Manufacture/Supplier

Traceable® Products
12554 Old Galveston Rd. Suite B230
Webster, TX 77598

E-mail address	sales@antylia.com
Made In	USA

Product Information 281-482-1714

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazardous Categories:

Flammable Liquid	Category 3
Eye Irritation	Category 1
Target Organ Toxicity, Single Exposure	Category 3

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

Label Elements

Regulation (EC) No. 1272/2008

Hazard components for labeling

Signal Word: Warning

Pictograms:

Precautionary Statements

P202 - Do not handle until all safety information has been read and understood.

Prevention

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.

Response

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

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.

Disposal Dispose of contents/container to an approved waste disposal plant.

Additional advice on labeling

Classification according to EU Directives 67/548/EEC or 1999/45/EC.
This product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008.

OSHA Regulatory Status
This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

EUH210 - Safety data sheet available upon request.

Hazards not otherwise classified (HNOC)
No information available

Other Information
No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Component	Chemical Formula	EC-No.	CAS-No	Classification according Regulation (EC) No. 1272 [CLP]	Weight %	Trade Secret
Water	-	-	7732-18-5	-	70 %	*
Potassium chloride	KCL	231-211-8	7447-40-7	-	<0.01 %	*
N-Propanol	-	200-746-9	71-23-8	-	30 %	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First Aid Measures

General Advice: Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. Show this safety data sheet to the doctor in attendance.

Eye Contact: In case of eye contact, remove contact lens and rinse thoroughly with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact: Wash off immediately with soap and plenty of water while removing all contaminated clothing and shoes. If skin reactions occur, contact a physician.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, obtain medical attention.

Ingestion: Clean mouth with water and drink afterwards plenty of water. Do not include vomiting. Call a physician or Poison Control Center immediately.

Production of First-Aiders: Use personal protective equipment. See Section 8 for more detail. Do not use mouth to mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical devices.

Most important symptoms and effects, both acute and delayed
Most important symptoms/effects: No information available

Indication of any immediate medical attention and special treatment needed
Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available

Specific Hazards Arising from the Chemical
Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Eliminate ignition source. Evacuate unnecessary personnel. Call appropriate firefighting crew. Special protective equipment for firefighters. Wear self-contained breathing apparatus for firefighting 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

Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions	Avoid breathing, mist or vapors. Ensure adequate ventilation. Use personal protective equipment. Refer to Section 8. Evacuate personnel to safe areas.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Method and Material for Containment and Cleaning Up

Methods for Containment	Prevent further leakage or spillage if safe to do so.
Methods for Cleaning Up	Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling	To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapors/spray Ensure adequate ventilation, especially in confined areas. Prevent the buildup of electrostatic charge.
Hygiene Considerations	Handle in accordance with good industrial hygiene and safety practice.

Conditions for Safe Storage, Including any Incompatibilities

Storage	Keep container tightly closed in a dry and well-ventilated place. Containers which have been opened must be resealed and kept upright to prevent leakage. Store at room temperature in the original container. Keep away from direct sunlight.
Incompatible Products	No information available.

Specific end use(s)

Specific use	Calibration and storage of pH meters/probes.
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Component		ACGIH TLV	OSHA PEL	NIOSH IDLH
1-Propanol	71-23-8	200 ppm	200 ppm	

Appropriate Engineering Controls

Engineering Measures	Showers Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face Protection	Wear chemical splash goggles. If splashes are likely to occur, wear: Face-shield.
Skin and Body Protection	Wear protection gloves/clothing
Respiratory Protection	None required under normal usage. In case of inadequate ventilation wear respiratory protection.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties.

Physical State	Liquid
Appearance	Clear
Odor	Alcoholic solvent
Odor Threshold	No information available
pH Range	~7-9

Property	**Values**	**Remarks * Method**
Melting point/freezing point	No information available	
Boiling Point/Range	> 35°C	
Flash Point (High in °C)	35°C	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	13.7 V% (Isopropyl alcohol)	

Lower flammability limit:	2.1 V%
Vapor pressure	No information available
Vapor Density	No information available
Specific Gravity	Not exceed 0.980
Water Solubility	Totally soluble in water at 20°C
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Kinematic Viscosity	No information available
Dynamic Viscosity	No information available
Explosive Properties	No information available
Oxidizing Properties	No information available

Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC Content (%)	No information available
Density	No information available
Bulk Density	No information available

10. STABILITY AND REACTIVITY

Reactivity
No information available

Chemical Stability
Stable under normal conditions

Possibility of Hazardous Reactions
May form explosive mixture with air.

Conditions to Avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight

Incompatible Materials
Aluminum, Acids, Oxidizing agents, Halogenated compounds, Acid anhydrides

Hazardous Decomposition Products
Carbon oxides, product vapors

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	No information available
Eye Contact	No information available
Skin Contact	No information available
Ingestion	No information available

Component		LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	7732-18-5	LD50 > 90 ml/kg (Rat)	-	-
1-Propanol	71-23-8	LD50 8,038 mg/kg (Rat)	LD50 4,000 mg/kg (Rabbit)	20000 ppm, 1 hr (Rat)

Information on Toxicological Effects

Symptoms No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenicity	No component >0.1% is listed by NTP, IARC, OSHA or ACGIH as a suspect or potential carcinogen.
Reproductive Effects	No information available
STOT – single exposure	Central nervous system depression
STOT – repeated exposure	Nausea, dizziness, narcosis or drowsiness
Aspiration hazard	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

This material is not expected to be harmful to aquatic life.

Component	Freshwater Algae	Freshwater Fish	Water Flea
1-Propanol	-	LC50: - Pimephales promelas (fathead minnow) – 4,555 mg/l – 96 h	EC50 – Daphnia magna (Water flea) – 3,642 mg/l – 48 h

Persistence and Degradability

No information available

Bioaccumulation/Accumulation

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

Mobility

No information available

Results of PBT and vPvB assessment

No information available

Other adverse effects

No information available

Endocrine Disruptor Information

No information available

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal.

14. TRANSPORT INFORMATION

DOT

UN-No	UN1274
Proper Shipping Name	n-Propanol solution, 3
Hazard Class	3
Packing Group	III
Reportable Quantity (RQ)	Not possible in one non- bulk package
Special Provisions	N/A
Shipping Description	UN1274, n-Propanol solution, 3, III
Marine Pollutant	No

IATA

Not allowed for air transportation

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

European Union Regulations

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

International Inventories

USINV	Component listed
CANINV	Component listed
EINECS/ELINCS	Component listed
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Component listed

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
ENCS - Japanese Existing and New Chemical Substances
IECSC - Chinese Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances

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

U.S. Federal Regulations

This product is known to be a "Hazardous Chemical" as defined by the OSHA Hazardous Communication Standard, 29 CFR 1910.1200. Flammable liquid, Target Organ Effect, Irritant

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40n of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

Not applicable

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65

This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

State Right-to-Know

Massachusetts Right-to-Know Act – Substance List	n-Propanol
New Jersey Worker and Community Right-to-Know Act	n-Propanol
Pennsylvania Right-to-Know Act – Hazardous Substance	n-Propanol
Rhode Island Right-to-Know Act	Not regulated

U.S. EPA Label Information

No information available

16. OTHER INFORMATION

Revision Date: 1-June-2021

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8,
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

This SDS is in accordance to Regulation (EC) No. 1907/2006.

Disclaimer:

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Traceable® Products, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Traceable® Products will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.