



a xylem brand

# MATERIAL SAFETY DATA SHEET

## 1. Product and Company Identification

**Material name** 02 Probe Solutions  
**Version #** 02  
**Issue date** 07-12-2013  
**Revision date** 07-12-2013  
**Supersedes date** 07-12-2013  
**CAS #** Mixture  
**Synonym(s)** 5685 02 Probe Solution \* 5731 02 Probe Solution \* 5775 02 Probe Solution \* 5776 Probe Service Kit with 02 Probe Solution  
**Manufacturer information** YSI, Inc.  
 1700/1725 Brannum Lane  
 Yellow Springs, Ohio 45387 United States  
 MSDSinfo@ysi.com  
 (937) 767-7241  
 CHEMTREC (US/Canada) (800) 424-9300  
 CHEMTREC (International) 001 703-527-3887  
 (Collect calls accepted)

## 2. Hazards Identification

**Emergency overview** Health injuries are not known or expected under normal use.  
**Potential health effects**  
**Routes of exposure** Inhalation. Skin contact.  
**Eyes** Dust in the eyes will cause irritation.  
**Skin** Dust or powder may irritate the skin.  
**Inhalation** Dust may irritate respiratory system.  
**Ingestion** Expected to be a low ingestion hazard. Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.  
**Signs and symptoms** Product dust may be irritating to eyes, skin and respiratory system.

## 3. Composition / Information on Ingredients

Components	CAS #	Percent
Potassium Chloride	7447-40-7	99.9
Kodak-Photo Flo 200	Mixture	0.1

## 4. First Aid Measures

**First aid procedures**  
**Eye contact** Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.  
**Skin contact** Wash off with soap and water. Get medical attention if irritation develops and persists.  
**Inhalation** If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.  
**Ingestion** Rinse mouth. If ingestion of a large amount does occur, call a poison control center immediately.  
**General advice** If you feel unwell, seek medical advice (show the label where possible).

## 5. Fire Fighting Measures

**Flammable properties** Not flammable by WHMIS criteria.  
**Extinguishing media**  
**Suitable extinguishing media** Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).  
**Unsuitable extinguishing media** Do not use water jet as an extinguisher, as this will spread the fire.

<b>Protection of firefighters</b>	
<b>Protective equipment for firefighters</b>	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
<b>Fire fighting equipment/instructions</b>	Move containers from fire area if you can do so without risk.
<b>Explosion data</b>	
<b>Sensitivity to static discharge</b>	Not available.
<b>Sensitivity to mechanical impact</b>	Not available.

## 6. Accidental Release Measures

<b>Personal precautions</b>	Minimize dust generation and accumulation. Wear appropriate protective equipment and clothing during clean-up.
<b>Environmental precautions</b>	Avoid discharge into drains, water courses or onto the ground.
<b>Methods for cleaning up</b>	Collect spill using a vacuum cleaner with a HEPA filter. Following product recovery, flush area with water.  Never return spills in original containers for re-use.
<b>Other information</b>	Clean up in accordance with all applicable regulations.

## 7. Handling and Storage

<b>Handling</b>	Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Avoid breathing dust. Avoid contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment. Practice good housekeeping.
<b>Storage</b>	Store in original tightly closed container. Store in a well-ventilated place. Guard against dust accumulation of this material. Store away from incompatible materials.

## 8. Exposure Controls / Personal Protection

<b>Occupational exposure limits</b>	No exposure limits noted for ingredient(s).
<b>Engineering controls</b>	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.
<b>Personal protective equipment</b>	
<b>Eye / face protection</b>	Use tight fitting goggles if dust is generated.
<b>Skin protection</b>	For prolonged or repeated skin contact use suitable protective gloves. Lightweight protective clothing.
<b>Respiratory protection</b>	Wear respirator with dust filter.

## 9. Physical & Chemical Properties

<b>Appearance</b>	Powder.
<b>Physical state</b>	Solid.
<b>Form</b>	Powder.
<b>Color</b>	White.
<b>Odor</b>	Odorless. Not
<b>Odor threshold</b>	available.
<b>pH</b>	Not available.
<b>Vapor pressure</b>	Not applicable.
<b>Vapor density</b>	Not applicable.
<b>Boiling point</b>	Not available.
<b>Melting point/Freezing point</b>	1418 °F (770 °C)
<b>Solubility (water)</b>	Infinitely soluble.
<b>Specific gravity</b>	1.98

<b>Relative density</b>	Not available.
<b>Flash point</b>	Not available.
<b>Flammability limits in air, upper, % by volume</b>	Not available.
<b>Flammability limits in air, lower, % by volume</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Molecular weight</b>	74.55
<b>Other data</b>	
<b>Explosive properties</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

## 10. Chemical Stability & Reactivity Information

<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Conditions to avoid</b>	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.
<b>Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.

## 11. Toxicological Information

### Toxicological data

Components	Species	Test Results
Potassium Chloride (CAS 7447-40-7)		
<b>Acute</b>		
<i>ORAL</i>		
LD50	Rat	2600 mg/kg
<b>Acute effects</b>	Expected to be a low hazard for usual industrial or commercial handling by trained personnel.	
<b>Local effects</b>	Dust in the eyes will cause irritation. Inhalation of dusts may cause respiratory irritation. Dust or powder may irritate the skin.	
<b>Chronic effects</b>	Not expected to be hazardous by WHMIS criteria.	
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
<b>Mutagenicity</b>	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
<b>Reproductive effects</b>	This product is not expected to cause reproductive or developmental effects.	
<b>Symptoms and target organs</b>	Product dust may be irritating to eyes, skin and respiratory system.	

## 12. Ecological Information

### Ecotoxicological data

Components	Species	Test Results
Potassium Chloride (CAS 7447-40-7)		
<b>Aquatic</b>		
<i>ACUTE</i>		
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> ) 83 mg/l, 48 hours
Fish	LC50	Western mosquitofish ( <i>Gambusia affinis</i> ) 435 mg/l, 96 hours
<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.	
<b>Persistence and degradability</b>	No data is available on the degradability of this product.	
<b>Mobility in environmental media</b>	This product is miscible in water.	

### 13. Disposal Considerations

<b>Disposal instructions</b>	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
<b>Waste from residues / unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

### 14. Transport Information

#### TDG

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### 15. Regulatory Information

**Canadian regulations** This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

**WHMIS status** Non-controlled

#### Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other Information

**HMIS® ratings** Health: 0  
Flammability: 0  
Physical hazard: 0

**NFPA ratings** Health: 0  
Flammability: 0  
Instability: 0

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently available.