



a xylem brand

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name 02 Probe Solutions
Version # 02
Issue date 01-19-2017
Revision date 01-19-2017
Supersedes date 01-19-2017
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.
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 Yellow Springs, Ohio 45387 United States
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 (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.

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

6. Accidental Release Measures

Personal precautions	Minimize dust generation and accumulation. Wear appropriate protective equipment and clothing during clean-up.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
Methods for cleaning up	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.
Other information	Clean up in accordance with all applicable regulations.

7. Handling and Storage

Handling	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.
Storage	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

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering controls	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.
Personal protective equipment	
Eye / face protection	Use tight fitting goggles if dust is generated.
Skin protection	For prolonged or repeated skin contact use suitable protective gloves. Lightweight protective clothing.
Respiratory protection	Wear respirator with dust filter.

9. Physical & Chemical Properties

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

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

10. Chemical Stability & Reactivity Information

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

11. Toxicological Information

Toxicological data

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

13. Disposal Considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Waste from residues / unused products	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).
Contaminated packaging	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.