



Date of Issue: 6/1/2022 Revision Date: 9/1/2023 Version 2.0

1. Identification

Product Name: pH, Extractant, 786008SS

Contains CAS-No: 10035-04-8

Identified Uses: Reagent for analysis, laboratory chemicals

Recommended Use: professional, scientific and technical activities

Restriction on Use: Not for food, drug, or household use

Supplier:

Precision Planting
23207 Townline Road
Tremont, IL 61568
(309) 925-5050

Emergency Number: CHEMTREC: 1-800-424-9300 within USA or Canada
or +1-703-527-3887 outside USA or Canada

2. Hazards Identification

Classification of substance or mixture:

This product is classified as not hazardous under OSHA's Hazard Communication Standard, 29 CFR 1910.1900 (HCS) and the United Nations Globally Harmonized System of Classification and Labeling of Chemical (GHS). Product contains no substance which at their given concentrations are considered to be hazardous to health. However, all chemicals handled and used in the workplace should be treated with caution.

Labeling Elements: Not Applicable

Signal Word: Not Applicable

Hazard Statement: Not Applicable

Precautionary Statement:

Wear protective gloves and safety glasses.

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

IF ON SKIN: Wash exposed areas with soap and water after handling. May cause allergic skin reactions.

IF IN EYES: Rinse thoroughly with plenty of water, also under the eyelids.

If skin or eye irritation occurs, get medical help.

Storage: Store away from incompatible materials

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental Hazard Statements: Call a poison center or doctor if you feel unwell. If skin irritation occurs or persists, seek medical attention or advice.

Hazards not otherwise classified: None identified

3. Composition/Information on Ingredients

Name:	Formula	Molar Mass	CAS Number	% Weight
Water	H ₂ O	18.015 g/mol	7732-18-5	98
Calcium chloride dihydrate	CaCl ₂ ·2H ₂ O	147.01 g/mol	10035-04-8	1.5

* Specific chemical identity and/or percentage of composition may be withheld as a trade secret

4. First-Aid Measures

General: Use first aid treatment according to the nature of the injury. Get medical attention immediately if symptoms occur. Show this safety data sheet to the doctor in attendance. Ensure medical personnel are aware of the material(s) involved and take precautions to protect themselves. Wash contaminated clothing before reuse.

After swallowed: Do not induce vomiting. Obtain medical attention.

If inhaled: Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

In case of skin contact: Wash with soap and plenty of water for at least 15 minutes while removing all contaminated clothing and shoes. Get medical attention immediately if symptoms occur.

In case of eye contact: Rinse immediately with plenty of water, including under the eyelids, for at least 15 minutes. Get medical attention.

Protection of First aiders: Use personal protection equipment. See Section 8 for more detail.

Symptoms/Effects: Not expected to present a significant hazard under anticipated conditions of normal use. Notes to physician, treat symptomatically.

Refer to Sections 2 and/or 11 for hazard information and/or toxicological information.

5. Fire-Fighting Measures

Fire Hazard: Not flammable

Explosion Hazard: Not applicable

Reactivity: None

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

Unsuitable Extinguishing Media: No information available

Advice for firefighters: In case of fire, stop leak if safe to do so. Exercise caution when fighting any chemical fires. Do not enter fire area without proper protective equipment including respiratory protection.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty containers away from heat and sources of ignition.

Hazardous Combustion Products: None known

Refer to Section 10 for stability and reactivity information.

6. Accidental Release Measures

Personal precautions, protective equipment, and emergency procedures:

Ensure adequate ventilation. Wear appropriate personal protective equipment. Evacuate personal to safe areas. Wash contaminated clothes, keep unnecessary and unprotected personnel from entering area. Avoid breathing vapors.

Environmental precautions and methods for containment and clean-up:

Clean up spills with proper protection. Avoid dispersal of spilled material, runoff and contact with soil, waterways, drains and sewers. Use proper personal protection. Contain spill area with inert absorbent material. Sweep or shovel into properly labeled, suitable containers.

Refer to heading 12 for ecological information.

Refer to heading 8 for exposure controls and personal protection.

7. Handling and Storage

Precautions for Handling: Wear personal protection equipment and comply with instructions for use. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not eat, drink, or smoke during use. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work.

Precautions for Storage: Store in well-ventilated, dry areas. Keep container tightly closed and sealed until ready for use.

Storage Conditions:

Store at room temperature

Store only in original container

Keep away from direct sunlight

Protect from freezing and physical damage

Incompatible Products: No information available

Keep out of reach of children

Refer to Section 10 for stability and reactivity incompatibilities.

8. Exposure Controls/Personal Protection

Occupational exposure limits: No information available

Personal Protective Equipment: Wear appropriate eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulation in 29 CFR 1910.144 or European Standard EN166.

Skin and Body Protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

Other Information: Do not eat, drink, or smoke during use. Handle in accordance with good industrial hygiene and safety practices, such as washing after handling the material. Routinely wash work clothing and protective equipment to remove contaminants.

Refer to Section 7 for handling and storage.

9. Physical and Chemical Properties

Physical State: Liquid

Appearance: Clear, colorless

Odor: Odorless

pH: 5.5 – 7.0

Freezing Point: 32 °F (0 °C) estimated

Initial Boiling Point: 212 °F (100 °C) estimated

Flashpoint: Not applicable

Evaporation Rate: No information available

Flammability: No information available

Vapor Pressure/Density: No information available

Specific gravity/Density: 1.009 g/mL

Solubility: Soluble in water.

Partition Coefficient: n-octanol/water: No information available

Autoignition Temperature: No information available

Decomposition Temperature: No information available

Viscosity: No information available

Explosive Properties: No information available

Oxidizing Properties: No information available

Other: No additional information available

10. Stability and Reactivity

Reactivity: None known, based on information available

Chemical Stability: Material is stable under normal conditions

Possibility of hazardous reactions: No dangerous reaction known under condition of normal use.
Conditions to Avoid: Incompatible products
Incompatible Materials: Strong oxidizing agents, reducing agents
Hazardous Decomposition Products: None under normal use conditions
Hazardous Polymerization: No information available

11. Toxicological Information

Acute Toxicity:

pH, Ext (CAS mixture):

Oral LD50 – Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg

Dermal LD50 – Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg

Vapor LC50 – Based on ATE data, the classification criteria are not met. ATE > 20 mg/L

Calcium chloride (CAS 10035-04-8):

Oral LD50 – Rat 2,301 mg/kg

Dermal LD50 – Rabbit > 5,000 mg/kg

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Information of likely routes of exposure:

Inhalation: No information available

Skin contact: No information available

Eye contact: No information available

Ingestion: No information available

Skin Corrosion/irritation: Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation: Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization: Not a respiratory sensitizer. May cause allergic skin reaction.

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity: Ingredients not listed as carcinogens

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probably, possible, or confirmed human carcinogen by IARC, NTP, or OSHA.

Reproductive Toxicity: This product is not expected to cause reproductive or development effects.

Specific target organ toxicity – single exposure: Not classified

Specific target organ toxicity – repeated exposure: Not classified

Aspiration hazard: Not an aspiration hazard

Chronic effects: Prolonged inhalation may be harmful

Signs and Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological Information

Ecology General: No information available

Ecotoxicity:

Calcium chloride (CAS 10035-04-8):

LC50 – Lepomis macrochirus 10,650 mg/L, 96 hours

EC50 – Water Flea 52 mg/L, 48 hours

Persistence and Degradability: No data is available on the degradability of this product. The surfactant(s) contained in this mixture comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Bioaccumulative Potential: No data available

Mobility in soil: No data available

Other adverse effects: No data available

13. Disposal Considerations

Waste disposal recommendation: Dispose in a safe manner in accordance with local/national regulations. Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Ecology waste materials: Avoid release to the environment.

Local disposal regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: Not regulated

Waste from residues/unused products: Emptied containers may retain product residue. Improper disposal or reuse of this container may be dangerous and illegal. Dispose of in accordance with local regulations. Empty container or liners may retain some product residues, follow label warnings even after container is emptied.

14. Transportation

Department of Transportation (DOT): In accordance with DOT, not regulated as dangerous goods

Transportation of Dangerous Goods (TDG): Not regulated as dangerous goods

International Maritime Dangerous Goods (IMDG): Not regulated as dangerous goods

International Air Transport Association (IATA): Not regulated as dangerous goods

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 (SARA)**SARA 320:** Not applicable**SARA 313 of Title III:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.**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 (CWA):

No information available

Comprehensive Environmental Response Compensation and Liability Act (CERCLA):

No information available

Clean Air Act: Not applicable**OSHA:** Not applicable**Right-To-Know: US State Regulations**

Water (CAS 7732-18-5): LISTED – Pennsylvania, New Jersey

Calcium chloride (CAS 10035-04-8): LISTED – New Jersey

California Prop 65 Components: California Safe Drinking Water and Toxic Enforcement Act of 1986

No components listed for causing cancer, birth defects or any reproductive harm

International Inventories:

Country/Region	Inventory Name	On Inventory*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
	Non-Domestic Substance List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substance (EINECS)	Yes
	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemical List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States	Toxic Substance Control Act (TSCA) Inventory	Yes

* "Yes" indicates all components of the product comply with the inventory requirements administer by governing country

* "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

16. Other Information

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Disclaimer:

The above information is believed to be accurate but Precision Planting makes no representation as to its accuracy. The above information does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product regarding appropriate safety precautions, use, storage, transportation, disposal and release. This information relates to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. It does not represent any guarantee of the properties of the product. Precision Planting makes no warranties of any kind as to the accuracy or completeness of the information contained herein. NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION HEREIN PROVIDED. The information should be used to make an independent determination, and, therefore, users are responsible to verify this data under their own operating conditions and methods. It is the responsibility of the user to ensure that its activities comply with all applicable government requirements. Precision Planting and its Affiliates shall not be held liable for any injuries or damage resulting from handling, use, misuse, or contact with the product.

End of Safety Data Sheet