

HarChem

H₂O

Water Services

PO Box 310, Muldrow, OK 74948

SAFETY DATA SHEET

HIM-355

SECTION 1: IDENTIFICATION

MANUFACTURER/ DISTRIBUTOR

HarChem Water Services
P.O. Box 310
Muldrow, OK 74948

Emergency Telephone Number:

479-806-0266 24 hours everyday

918-427-0777

Chemtrec 1-(800)-262-8200

RECOMMENDED USES: Industrial Water Treatment

SECTION 2: HAZARD IDENTIFICATION

<u>Ingredient (s)</u>	<u>CAS#</u>	<u>% (by weight)</u>
Water	7732-18-5	50-95%
Tributyltetradecyl Phosphonium Chloride	81741-28-8	5-20%

Pictogram Representation:



Physical Hazards: Not classified

Health Hazards: Acute tox. 3- H331 Skin Corr 1B-H314 Eye Dam. 1 -H318

Environmental Hazards: Aquatic Acute 1-H400 Aquatic Chronic 1-H410

Signal Word: Danger

Hazard Statements: H314 Causes severe skin burns and eye damage

H331: Toxic if inhaled

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements: P260 Do not breathe vapor/spray

P261 Avoid breathing vapor spray

P264 Wash contaminated skin thoroughly after handling

P271 Use only outdoors or in a well ventilated area

P273 Avoid release to the environment

P280 Wear protective gloves/ protective clothing/eye protection/face protection

P301+P330+P331 If swallowed: Rinse mouth. Do not induce vomiting

P303+P361+P353 If on skin or hair take off immediately all contaminated clothing. Rinse skin with water/shower.

P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310: Immediately call a poison control center/doctor.

P311 Call a poison center/doctor

P321 Specific treatment (see medical advice on this label)

P363 Wash contaminated clothing before reuse

P391 Collect spillage

P403+P233 Store in a well ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulations.

SECTION 3: COMPOSITION/ INFORMATION ON INGREDIENTS

Water-Not classified

Tributyltetradecyl Phosphonium Chloride: M factor (Acute)=10 M factor (Chronic)=10

Classification

Acute Tox 4-H302
Acute Tox 3-H331
Skin Corr. 1B-H314
Eye Damage 1-H318
Aquatic Acute-1-H400
Aquatic Chronic 1-H410

SECTION 4. FIRST AID MEASURES

EYES: Remove affected person from source of contamination. Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

SKIN: Remove affected person from source of contamination. Immediately remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if any discomfort continues.

INGESTION: Never give anything by mouth to an unconscious person. Do not induce vomiting. If vomiting occurs the head should be kept low so that vomiting does not enter the lungs

INHALATION: Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Get medical attention if any discomfort continues.

Most important symptoms and effects, both acute and delayed.

Inhalation: Severe irritation of nose and throat. Congestion of the lungs may occur, producing severe shortness of breath.

Ingestion: May cause chemical burns in mouth and throat. May cause stomach pain or vomiting.

Skin contact: Chemical burns.

Eye Contact: May cause blurred vision and serious eye damage.

Indication of immediate medical attention and special treatment needed.

Notes for the doctor: Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: The product is non flammable. Extinguish with the following media: Carbon dioxide (CO₂). Foam.. Dry chemicals, sand, dolomite, etc. Water spray, for or mist.

FIRE / EXPLOSION HAZARDS: Fire creates toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of the following substances: Phosphorus. Chlorine. No unusual fire or explosion hazards noted.

FIRE FIGHTING PROCEDURES: Move containers from fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Control run-off water by containing and keeping it out of sewers and watercourses. Leave danger zone immediately. Wear positive pressure self contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Follow precautions for safe handling described in this SDS. For personal protection, see Section 8.

Environmental Precautions: Avoid release to the environment. To prevent release, place container with damaged side up.

Methods and material for containment and clean up: Avoid the spillage or runoff entering drains, sewers, or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect spillage for reclamation or disposal in sealed containers via a licensed waste contractor. Containers with collected spillage must be properly labeled with correct contents and hazard symbol.

Reference to other sections: For waste disposal see section 13.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid spilling. Avoid contact with eyes and skin. Avoid inhalation of vapors and spray/mists. Good personal hygiene procedures should be implemented.

STORAGE: Store in a tightly closed original container in a dry, cool, and well ventilated place. Store at temperatures not exceeding 50 C/122 F. Protect from freezing and direct sunlight. If frozen: once thawed, agitate container vigorously to ensure the product is homogenous. Store away from the following materials, alkalis, acids, cyanides, reducing agents, oxidizing materials and aluminum. Do not use containers made of carbon steel. Keep separate from food, feeds, fertilizers, and other sensitive materials.

Storage Class: Corrosive Storage

Specific end uses: The identified uses for this product are detailed in Section 1.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

INGREDIENT COMMENTS: No exposure limits known for ingredients.

Appropriate engineering controls: Avoid inhalation of vapors. Observe any occupational exposure limits for the product or ingredients. Provide adequate ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE: Wear protective eye wear (goggles or face mask). Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Full face visor or shield.

RESPIRATORY: If ventilation is inadequate suitable respiratory protection must be worn. If exposure to spray, mist, or vapors is possible wear respirator face mask with appropriate cartridge. A respiratory protection program that meets OSHA 1910.134 and ANZI Z88.2 requirements must be followed whenever work place conditions warrant a respirators use.

HYGIENE MEASURES: Provide eyewash station. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

PROTECTIVE CLOTHING: Wear protective gloves made of the following material: Selection of suitable glove depends on work conditions and whether the product is present on its own combination with other substances. Neoprene. Nitrite rubber. Polyethylene. Polyvinyl chloride (PVC). It should be noted that liquid may penetrate the gloves. Frequent changes are recommended.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

ODOR: Slight

APPEARANCE: Liquid

COLOR: Colorless

pH: (concentrated solution):6-8

Initial boiling point and range: 100 @ C @ 760 mm Hg

Relative Density: 0.96-1.00 @ 20 C

Explosive Properties: Scientifically unjustified.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: There are no known reactivity hazards associated with this product.

Stability: Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions: Will not polymerize.

Conditions to avoid: Avoid excessive heat for prolonged periods of time.

Hazardous Decomposition products: Fire creates: Toxic gases/vapors/fumes of: Carbon monoxide (CO). Carbon Dioxide (CO₂). Oxides of the following substances: Phosphorous. Chlorine.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicological effects: Ames Test negative

Acute toxicity-oral	
Acute toxicity oral (LD50 mg/kg)	4000.0
Species	Rat
ATE oral (mg/kg)	10,000.0
Acute toxicity-dermal	2000.0
Species:	Rat
Acute toxicity-inhalation	0.9
Species	Rat
ATE inhalation (dust/mist mg/l)	0.9

Germ cell mutagenicity:

Genotoxicity-in vitro	Ames test: Negative
Inhalation:	Toxic by inhalation. LC50 0.9 mg/L. Administered as a liquid aerosol for a single 4h nose only exposure tp rats.
Ingestion:	Causes burns. May cause stomach pain or vomiting.
Skin Contact:	Causes burns. Not a skin sensitizer.
Eye Contact:	Causes burns.
Acute and chronic health hazard:	This product is corrosive.
Route of entry:	Skin and/or eye contact: Ingestion. Inhalation
Target Organs:	Eyes, skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

Acute toxicity-fish: 50% solution of tributyltridecylphosphonium chloride in water. LC50, 96 hours: 0.0065 mg/l, *Lepomis macrochirus* (bluegill)

Acute toxicity-aquatic invertebrates-50% solution of tributyltridecylphosphonium chloride in water. EC50, 48 hours: 0.025 mg/l, *daphnia magna*.

Acute toxicity-aquatic plants- Not available

Degradability- This product is biodegradable but it must not be discharged into drains without permission from the authorities.

Bio-accumulative potential- The product does not contain any substances expected to be bioaccumulating.
Partition coefficient: Not available

Mobility in soil: The product is miscible with water. May spread in water systems.

Other adverse effects: Not available.

SECTION 13. DISPOSAL CONSIDERATIONS

General Information: When handling waste, the safety precautions applying to handling of the product should be considered. Triple rinse drums prior to recycling or disposal.

Disposal Methods: Absorb in vermiculite, dry sand or earth and place into containers. Dispose of waste via a licensed waste disposal contractor. Liquid material should be incinerated. Material absorbed onto sand or earth should be disposed of as a solid waste in accordance with local regulations. Empty packaging may contain product residues and due consideration should be given prior to disposal.

SECTION 14: TRANSPORT INFORMATION

UN No. (TDG) 2922

UN No. (IMDG) 2922

UN No. (ICAO) 2922

UN No. (DOT) 2922

Proper shipping name (TDG): Corrosive liquid, Toxic N.O.S. (contains tributyltetradecylphosphonium chloride), Marine Pollutant

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Transport hazard class(es)

TDG class: 8 (6.1)

IMDG class: 8 (6.1)

ICAO class/division 8

ICAO subsidiary risk 6.1

Packing group

TDG Packing Group II

IMDG packing group II

ICAO packing group II

DOT packing group II

Special precautions for user

EmS F-A, S-B

Classification Code (Adr) CT1

SECTION 15: REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for SDS and for workplace labels of no pesticide chemicals. Following is the hazard information as required on the pesticide label. DANGER. Avoid contact with eyes, skin and clothing.

SECTION 313: This product does not contain toxic chemical subject to the reporting requirements of section 313 of title III of the superfund amendment and reauthorization act of 1986 and 40 CFR part 372.

Proposition 65: This product does not contain chemicals considered by the State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 as causing cancer or reproductive toxicity and for which warnings are now required.

29 CFR 1910.1010 Federal Regulations (OSHA Standard). This product is hazardous under the OSHA Hazard Communication Standard.

US Federal Regulations:

SARA Section 302 Extremely Hazardous Substances Tier II Threshold Planning Quantities: None of the ingredients are listed.

CERCLA/ Superfund, Hazardous Substances/ Reportable Quantities: N/A

SARA 313 Emission Reporting: N/a

CAA Accidental Release Prevention: N/a

FDA- Essential Chemical: N/a

SECTION 16: OTHER INFORMATION

Date of Preparation: 11/01/19

Last Revision: N/A