



Daron Tanko Amana Operations Senior Environmental Analyst	Whirlpool Corporation, Amana Operations 2800 220th Trail Amana, IA 52204 Ph: (319) 432-8793 Fax: (319) 622 2995 Email: Daron_J_Tanko@whirlpool.com
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January 4, 2024

Attn: Mr. Jeffrey Thomann
Iowa Department of Natural Resources
Field Office #6
1023 West Madison Street
Washington, Iowa 52353-1623
Jeffrey.thomann@dnr.iowa.gov *[sent by e-mail]*

RE: Spill event report

Dear Mr. Thomann,

Whirlpool Corporation – Amana Operations (Amana, Iowa County, Iowa) is submitting this written spill event report in accordance National Pollutant Discharge Elimination System (NPDES) Permit No. 4802102.

On January 3, 2024, at 14:15 CST, a 30-gallon plastic drum of Chemtreat CL3000 (UN1730) breached while being moved manually by a Whirlpool employee. The root cause of the plastic drum failure is structural fatigue, potentially from an impact with metal door jam. The single drum was located in the Well 7 well house, not a confined space. A Whirlpool employee was cleaning the Well 7 well house by removing debris, scrap metal piping, and unused-unneeded chemicals. The liquid contents of the fractured drum immediately flowed on the floor to a 3" floor drain that discharges directly to outfall 001. The exact release location is downstream of outfall 001 weir by approximately 35 ft. Moreover, the release location is approximately 290 ft. upstream from the property line. The 3" floor drain does not have an automatic or manual cap or plug to prevent releases. The 30-gallons of CL3000 could not be recovered or retained in the drainpipe. Per SDS, the floor drain was flushed with approximately 4000 gallons of water (45 GPM) from Well 7, which was recently repaired and renovated. When combined, the 30-gallon spill was diluted IAW the SDS with discharges from outfall 001 (33 GPM), well 7 (45 GPM), and outfall 002 (11 GPM), which is adjacent to the property line and 290 ft. downstream of the drainpipe.

There were no injuries from the spill event and the Well 7 house was ventilated to original condition. The fractured drum was removed on January 3.

Whirlpool Amana wastewater staff inspected the channel immediately after the spill event, throughout the evening of January 3rd (2nd shift), and on January 4, 2024 (1st shift). There was no observed degradation in the channel (dead water grasses or bleached moss) or dead fish, insects, tadpoles,

birds, or turtles. There is no airborne vapor risk. No oil sheens were observed. No additional chemicals were released.

The Chemtreat CL3000 is not used in the Well 7 plumbing system and it appears to be legacy chemicals when well 7 was used for industrial production. Evidence from the drum indicates the CL3000 was delivered to Whirlpool Amana on April 13, 2020. The liquid contents appeared degraded since original production, but a chlorine smell was evident. A second vented drum of CL3000 was also identified with less than 10-gallons with a delivery date of January 27, 2019.

The weather conditions were cloudy, no precipitation, and the temperature in the mid-30's. Lighting was adequate with no restricted visibility concerns by Whirlpool employees.

The Iowa DNR was notified on January 4, 2024 at 11:45 AM using the IA DNR emergency spill notification number.

In summary, the Chemtreat chemical CL3000 (UN1760) was spilled on January 3, 2024 at 14:15 CST when an employee was moving a 30-gallon plastic drum inside the Well 7 well house. The CL3000 is a legacy chemical not used at Well 7. Structural fatigue of the drum is suspect, potentially from impact with a metal door jam. The CL3000 spilled on the floor and immediately flowed to a 3" floor drain and was release into outfall 001. Dilution of the 30-gallons of CL3000 was completed IAW the CL3000 SDS using a combined dilution volume of 89 GPM at the property line from outfall 001 and 002. There were no injuries. There are no airborne risks and the Well 7 well house has been ventilated to original condition. There are no follow on releases from the drainpipe. There have been no observed fish kills, degraded wildlife, degraded vegetation, or negative impact to the receiving stream on January 3-4, 2024.

If you have any questions concerning this notification, please contact me at (319) 432-8793 or Daron_J_Tanko@whirlpool.com.

Sincerely,



Daron Tanko
Senior Environmental Analyst
WHIRLPOOL CORPORATION – AMANA

Attached documents: CL3000 SDS, shipping papers, photos



Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation develops or persists, get medical advice/attention.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists, get medical advice/attention.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P314 Get medical advice/attention if you feel unwell.
P362 Take off contaminated clothing and wash before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P406 Store in a corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents and container in accordance with applicable local, regional, national, and/or international regulations.

System of Classification Used:

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards Not Otherwise Classified:

None.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt. %
Chlorine dioxide	10049-04-4	0.3

Comments

If chemical identity and/or exact percentage of composition has been withheld, this information is considered to be a trade secret.



SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name:	ChemTreat CL3000
Product Use:	Cooling Water Microbiocide
Supplier's Name:	ChemTreat, Inc.
Emergency Telephone Number:	(800)424-9300 (Toll Free)
Address (Corporate Headquarters):	5640 Cox Road Glen Allen, VA 23060
Telephone Number for Information:	(800)648-4579
Date of SDS:	February 14, 2019
Revision Date:	February 14, 2019
Revision Number:	19021401AN

Section 2. Hazard(s) Identification



Signal Word: **WARNING**

GHS Classification(s):
Skin corrosion/irritation – Category 2
Eye damage/irritation – Category 2b
Acute Toxicity Inhalation – Category 4
Hazardous to the aquatic environment Acute – Category 2
Corrosive to Metals – Category 1

Hazard Statement(s):
H315 Causes skin irritation.
H320 Causes eye irritation.
H332 Harmful if inhaled.
H401 Toxic to aquatic life.
H290 May be corrosive to metals.

Precautionary Statement(s):

Prevention:
P264 Wash thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P271 Use only outdoors or in a well-ventilated area.
P234 Keep only in original container.



Section 4. First Aid Measures

Inhalation:	If symptoms develop, immediately move individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen. Monitor the patient closely for delayed development of pulmonary edema, which may occur up to 72 hours after inhalation.
Eyes:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
Skin:	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs, seek medical advice/attention.
Ingestion:	DO NOT INDUCE VOMITING. Rinse mouth. Drink large quantities of water. Consult a physician immediately. Neutralization and use of activated charcoal are not recommended.
Most Important Symptoms:	N/D
Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary:	Probable mucosal damage may contraindicate the use of gastric lavage. Have the product container, label or MSDS with you when calling a poison control center or doctor, or when going for treatment.

Section 5. Fire Fighting Measures

Flammability of the Product:	Not flammable.
Suitable Extinguishing Media:	Use extinguishing media suitable to surrounding fire.
Specific Hazards Arising from the Chemical:	Product may emit toxic gases or fumes under fire conditions. Chlorine dioxide solution is not explosive. Chlorine dioxide gas, which may evolve from chlorine dioxide solution, may spontaneously decompose with a mild energy release at concentrations of 10% in air or greater at standard temperature and pressure (i.e., 76 mm Hg partial pressure).
Protective Equipment:	If product is involved in a fire, wear full protective clothing including a positive-pressure, NIOSH approved, self-contained breathing apparatus.



Section 6. Accidental Release Measures

Personal Precautions:	Use appropriate Personal Protective Equipment (PPE).
Environmental Precautions:	Do not discharge effluent containing this product into lakes, ponds, streams, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.
Methods for Cleaning up:	Large spills: Prevent runoff to sewers, streams, lakes or other bodies of water. Small spills: Absorb liquid on vermiculite, floor absorbent or other absorbent material. Flush area with water. Stop spill at source, dike area around spill to prevent spreading, and pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, vermiculite, floor absorbent, or other absorbent material and shoveled into containers. Flush with water the area from which the bulk of the spill has been removed.
Other Statements:	None.

Section 7. Handling and Storage

Handling:	Wear appropriate Personal Protective Equipment (PPE) when handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing vapors, mist or dust.
Storage:	Store away from incompatible materials (see Section 10). Store at ambient temperatures. Keep container securely closed when not in use. Label precautions also apply to empty container. Recondition or dispose of empty containers in accordance with government regulations. For Industrial use only. Do not store below 34°F. Do not store above 110°F. Store above Freeze Point. The material should not be heated to temperatures in excess of 140°F. At temperatures above 140°F, the gas concentration in the headspace of the container may reach high, energetically unstable concentrations.



Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
Chlorine dioxide	ACGIH TLV	0.83 mg/m ³ STEL
	OSHA PEL	0.3 mg/m ³ TWA

Engineering Controls:

Use only with adequate ventilation. The use of local ventilation is recommended to control emission near the source.

Personal Protection

Eyes:

Wear splash-proof face and eye protection (PVC is preferred) where chlorine dioxide solution may splash or spray. Safety glasses should be in compliance with OSHA regulations.

Skin:

Wear waterproof protective clothing (PVC is preferred) where chlorine dioxide solution may splash or spray. Wear resistant gloves, such as Neoprene, to prevent skin contact, wear impervious clothing and boots. Other protective equipment: eyewash station, emergency shower.

Respiratory:

Exposures in the workplace should be monitored to determine if worker exposure exceeds the facility-specified exposure "action level" or the use of the material produces adverse health effects or symptoms of exposure. Provide adequate ventilation to maintain all work areas at concentrations below 0.1 ppm chlorine dioxide concentration. If the generation of vapors or mists is possible, use local ventilation. Where gas concentration may exceed 0.1 ppm, only a NIOSH/MSHA approved half or full-face acid gas respirator should be used. Monitoring results must be used to assess the proper level or respiratory protection necessary. Proper engineering and/or administrative controls should be used to reduce worker exposure. The facility's respiratory protection program must meet the requirements established in 29 CFR 1910.134, which includes a program for medical evaluation. A NIOSH/MSHA approved self-contained breathing apparatus, with full face piece, is required for leaks and emergencies where the concentration may exceed 5 ppm.



Section 9. Physical and Chemical Properties

Physical State and Appearance:	Liquid, Greenish Yellow, Clear
Specific Gravity:	1.000 @ 20°C
pH:	3.2 @ 20°C, 100.0%
Freezing Point:	32°F
Flash Point:	N/D
Odor:	Strong
Melting Point:	N/A
Initial Boiling Point and Boiling Range:	N/D
Solubility in Water:	Complete
Evaporation Rate:	N/D
Vapor Density:	N/D
Molecular Weight:	N/D
Viscosity:	<100 CPS @ 20°C
Flammability (solid, gas):	N/D
Flammable Limits:	N/A
Autoignition Temperature:	N/A
Density:	8.34 LB/GA
Vapor Pressure:	N/D
% VOC:	0
Odor Threshold	N/D
n-octanol Partition Coefficient	N/D
Decomposition Temperature	N/D

Section 10. Stability and Reactivity

Chemical Stability:	Stable at normal temperatures and pressures.
Incompatibility with Various Substances:	Avoid exposure to light. Avoid contact with: metals, reducing agents, strong oxidizing agents, sulfur compounds or sulfur-containing components, carbon monoxide, excessive heat, mercury, organic materials, phosphorus.
Hazardous Decomposition Products:	Chlorine dioxide gas, Chlorine, Hydrochloric acid, Oxygen gas.
Possibility of Hazardous Reactions:	None known.
Reactivity:	N/D
Conditions To Avoid:	N/D



Section 11. Toxicological Information

Acute Toxicity

Chemical Name	Exposure	Type of Effect	Concentration	Species
ChemTreat CL3000	Oral	LD50	>5000 MG/KG	Rat
	Dermal	LD50	>5000 MG/KG	Rat
	Inhalation	LC50	2.13 MG/L	Rat

Carcinogenicity Category

Component	Source	Code	Brief Description
Chlorine dioxide	EPA	EPA-CBD	Carcinogenic potential cannot be determined.

Likely Routes of Exposure: Ingestion, skin and eye contact and inhalation of vapors which may evolve from the material.

Symptoms

Inhalation: N/D

Eye Contact: N/D

Skin Contact: N/D

Ingestion: N/D

Skin Corrosion/Irritation: Moderately irritating to the skin

Serious Eye Damage/Eye Irritation: Minimally irritating to the eye

Sensitization: N/D

Germ Cell Mutagenicity: N/D

Reproductive/Developmental Toxicity: N/D

Specific Target Organ Toxicity

Single Exposure: N/D

Repeated Exposure: N/D

Aspiration Hazard: N/D

**Comments:**

Potential Acute Health Effects: Eye contact: irritation, redness
Inhalation: irritation, sore throat, wheezing, and difficulty breathing
Skin contact: redness
Ingestion: abdominal pain, nausea, vomiting and diarrhea; it is unlikely to cause serious digestive tract injury. Chlorine dioxide given daily in drinking water at 1–100 ppm caused a decrease in blood glutathione, altered the morphology of erythrocytes, and caused osmotic fragility in laboratory animals.
Potential chronic health effects: Short term exposure: Components in this product may be irritating to the skin, eyes and respiratory tract. Long term exposure: Prolonged inhalation effects may be harmful. In extreme cases, it may cause pulmonary damage and death.

Section 12. Ecological Information

Ecotoxicity

Species	Duration	Type of Effect	Test Results
Daphnia pulex	48h	EC50	1.8 mg/l
Mysid Shrimp	48h	LC50	188 mg/l
Sheepshead Minnow	96h	LC50	297 mg/l

Persistence and Biodegradability: N/D

Bioaccumulative Potential: N/D

Mobility In Soil: N/D

Other Adverse Effects: N/D

Comments: None.

Section 13. Disposal Considerations

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by procedures approved by state and local authorities.



Section 14. Transport Information

Controlling Regulation	UN/NA#:	Proper Shipping Name:	Technical Name:	Hazard Class:	Packing Group:
DOT	UN1760	CORROSIVE LIQUIDS, N.O.S.	(0.3% CHLORINE DIOXIDE AQUEOUS SOLUTION)	8	PGIII
IMDG	UN1760	CORROSIVE LIQUIDS, N.O.S.	(0.3% CHLORINE DIOXIDE AQUEOUS SOLUTION)	8	PGIII

Note: N/A

Section 15. Regulatory Information

Inventory Status

United States (TSCA):
Canada (DSL/NDSL):

All ingredients listed.
All ingredients listed.

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard:	No
Reactive Hazard:	No
Release of Pressure:	No
Acute Health Hazard:	Yes
Chronic Health Hazard:	No

Other Sections

Component	Section 313 Toxic Chemical	Section 302 EHS TPQ	CERCLA RQ
Chlorine dioxide	Yes	N/A	N/A

Comments: None.



State Regulations

California Proposition 65: None known.

Special Regulations

Component	States
Chlorine dioxide	CA, DE, ID, MA, ME, MN, NJ, NY, PA, WA, WI

Compliance Information

NSF: Certified to NSF/ANSI Standard 60
Maximum use rate for potable water – 670 mg/l use rate
This product ships as NSF from:
Allentown, PA

Food Regulations: N/A

KOSHER: This product has not been evaluated for Kosher approval.

Halal: This product has not been evaluated for Halal approval.

FIFRA: Registered pesticide under 40 CFR 152.10, Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), EPA Registration Number: 75757-2-15300.

Other: None

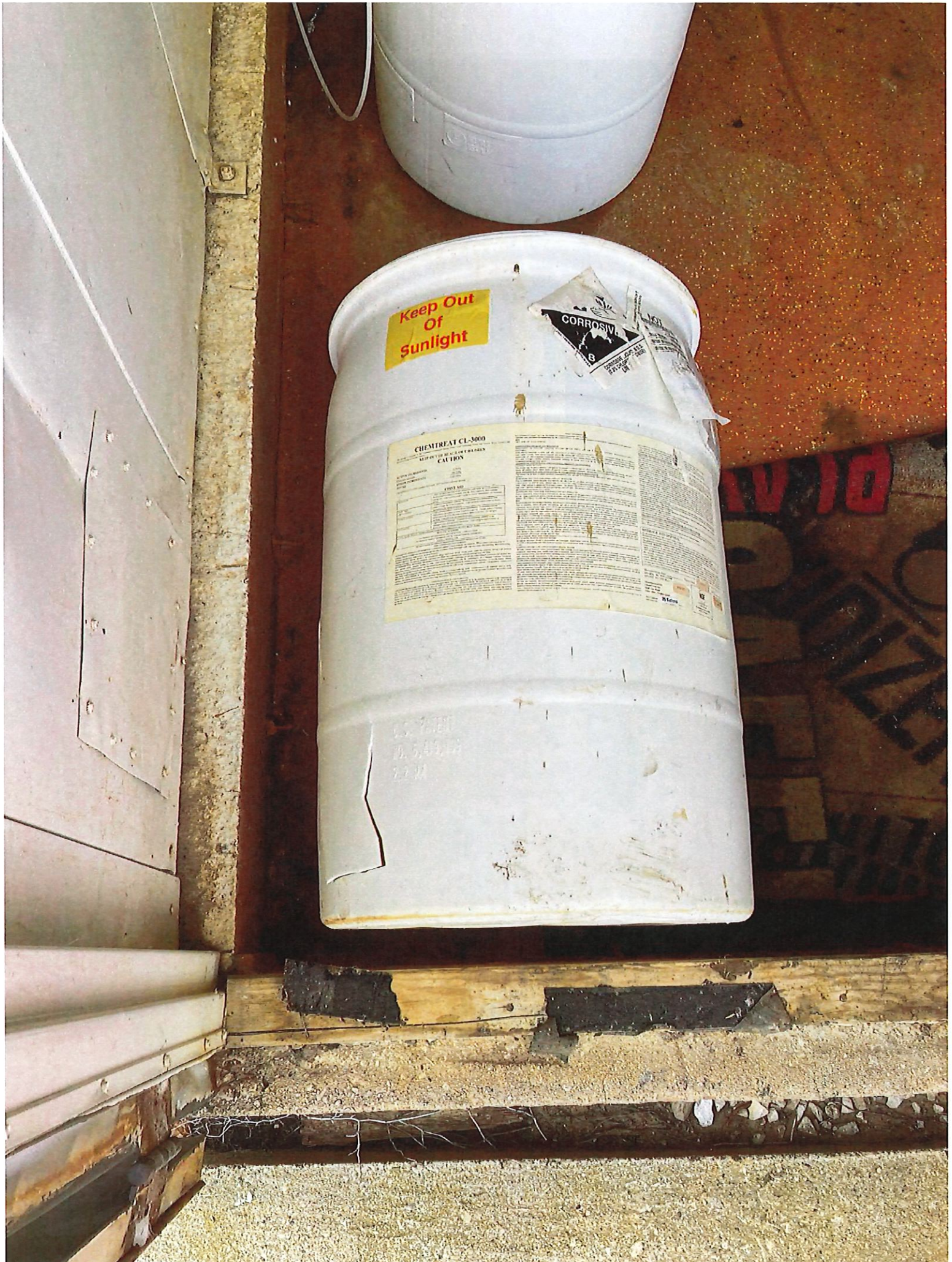
Comments: None.

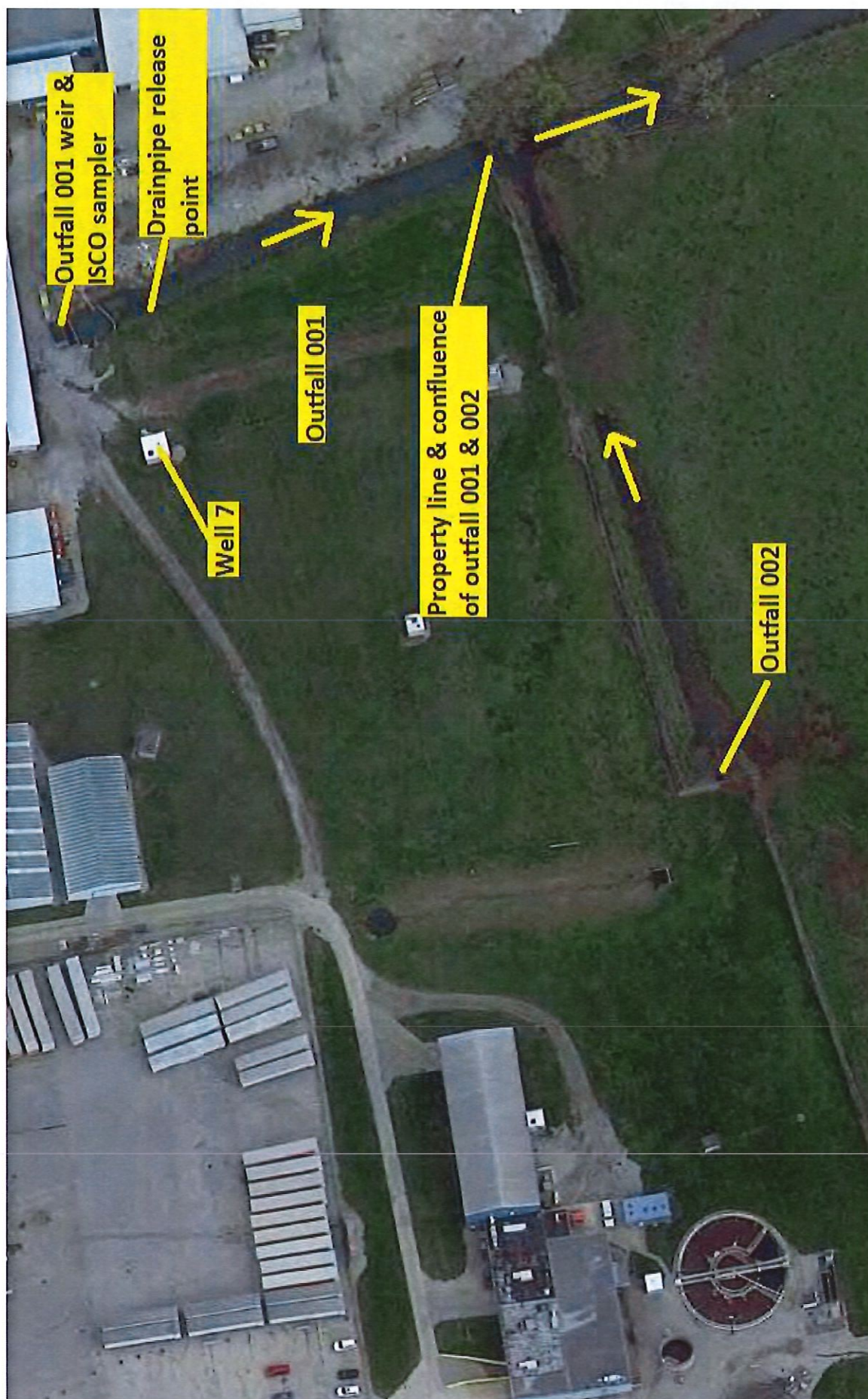
Section 16. Other Information

HMIS Hazard Rating

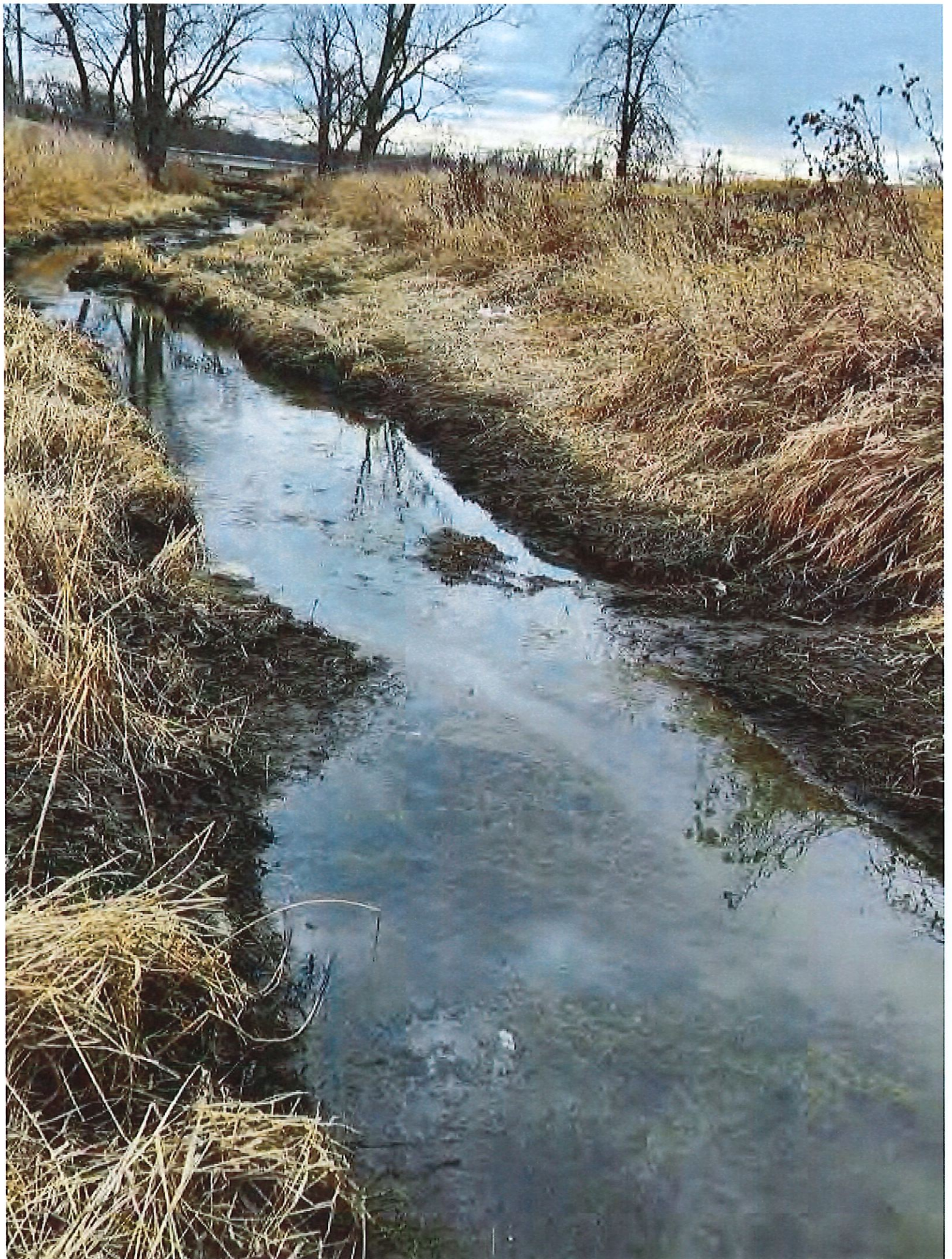
Health:	1
Flammability:	0
Physical Hazard:	1
PPE:	X

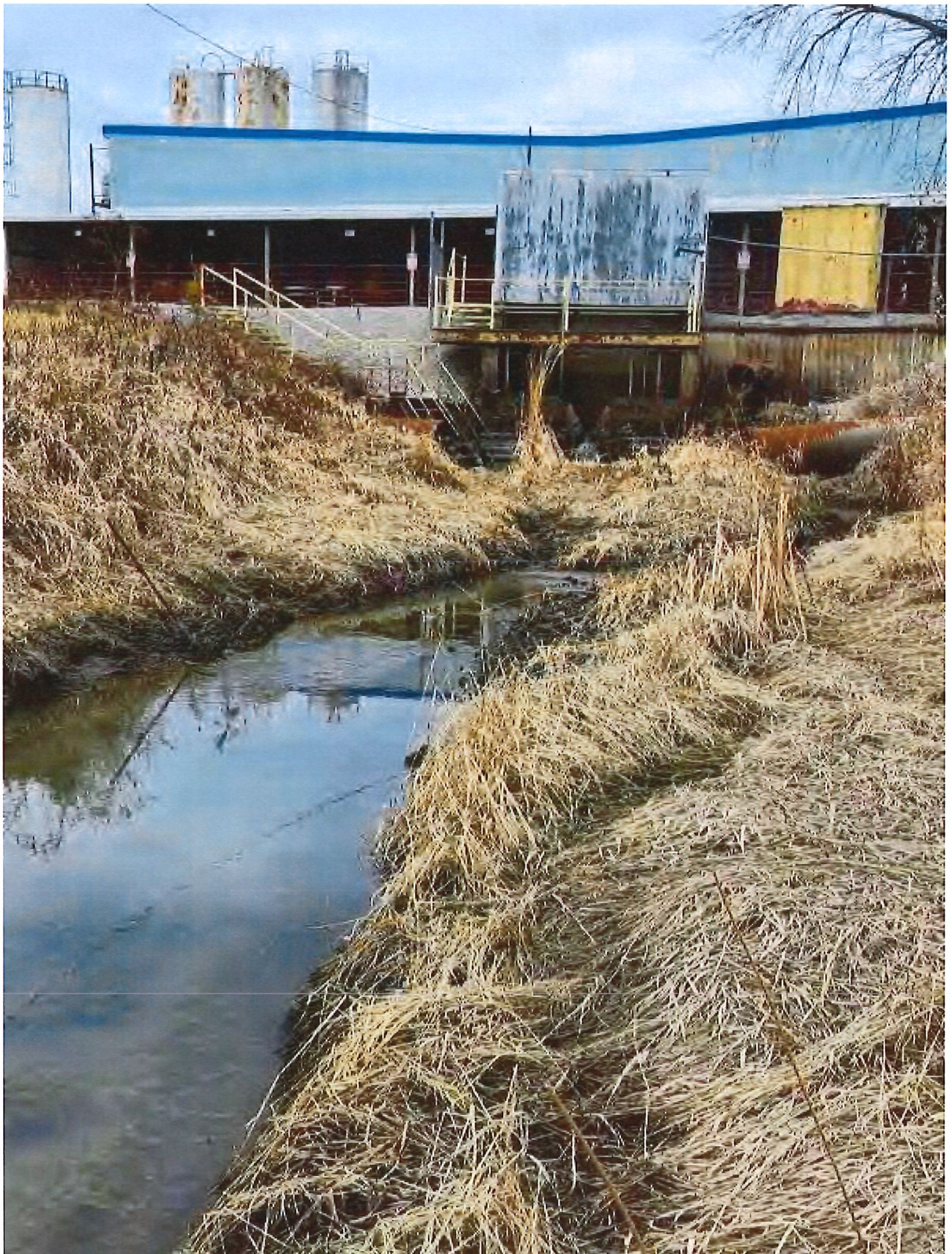
Notes: The PPE rating depends on circumstances of use. See Section 8 for recommended PPE.
The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha-numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end-user must determine if the code is appropriate for their use.



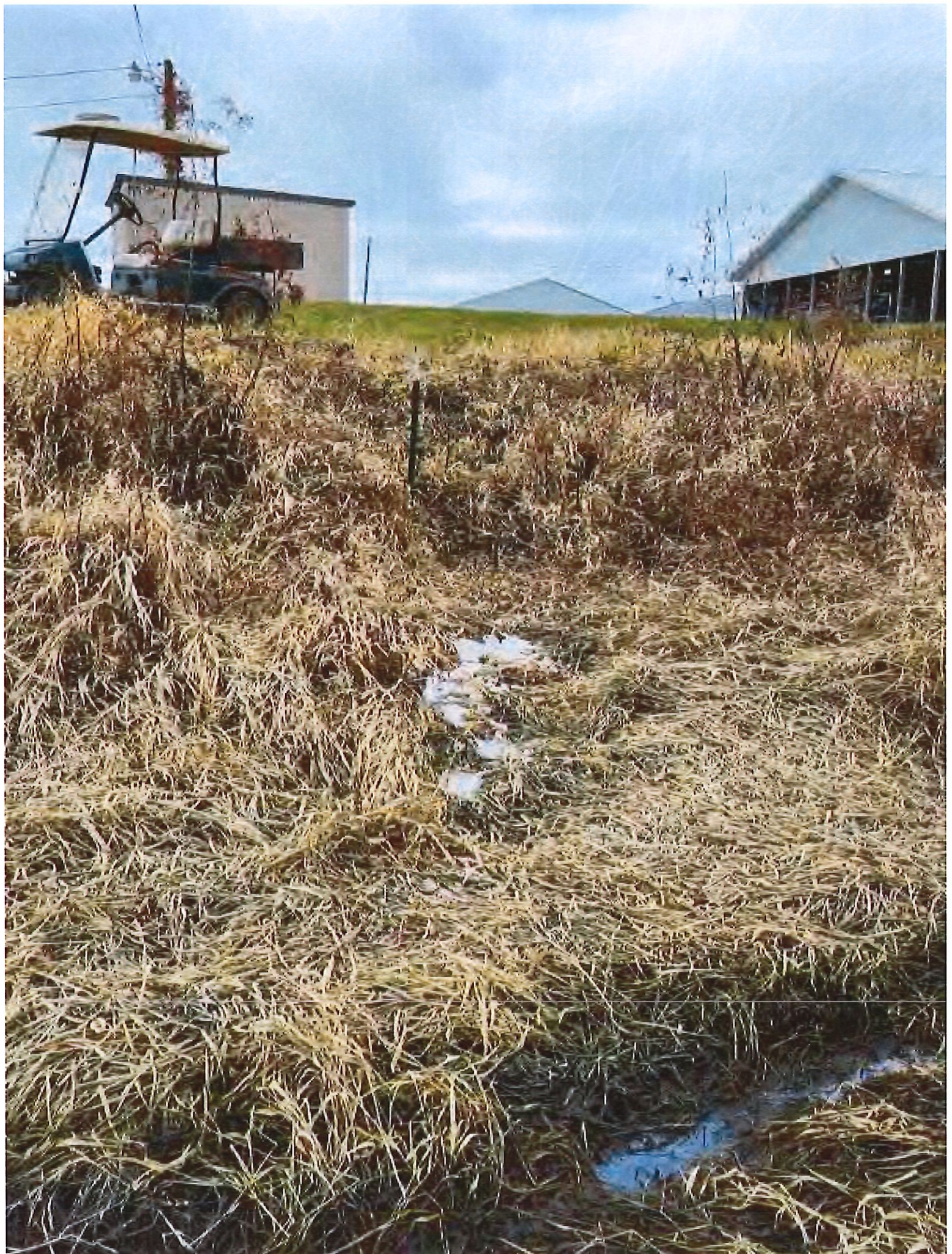












CHEMTREAT CL-3000

This product is intended for the Treatment of Industrial Process Water, Food Processing Water, and Process Water Systems, and Control of Slime in Cooling Towers.

KEEP OUT OF REACH OF CHILDREN CAUTION

ACTIVE INGREDIENTS

Chlorine dioxide.....	0.30%
OTHER INGREDIENTS.....	99.70%
TOTAL:	100.00%

CHEMTREAT CL-3000 contains 3000 ppm (3000 mg/liter) chlorine dioxide

FIRST AID

IF IN EYES:	• Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor immediately for treatment advice.
IF ON SKIN OR CLOTHING:	• Remove contaminated clothing. • Rinse exposed skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor immediately for treatment advice.
IF SWALLOWED:	• Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF INHALED:	• Move person to fresh air. • If person is not breathing, call 911 or an ambulance then give artificial respiration. • Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

HOTLINE NUMBERS

For chemical spill information, call CHEMTREC: 1-800-424-9300
For emergency medical information, call the National Pesticide Information Center: 1-800-858-7378

See insert booklet for additional precautionary statements and directions for use.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Caution: Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Harmful if swallowed, absorbed through the skin, or inhaled. Wash thoroughly with soap and water after handling, and before eating, drinking, chewing gum, using tobacco, or using the toilet.

HAZARDS TO AQUATIC LIFE: This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: Chlorine dioxide is a strong oxidizing agent. Contamination with materials such as acids, chlorine, and organic chemicals may cause a chemical reaction resulting in evolution of chlorine dioxide and heat. Explosion and/or fire could result. Keep all chemicals and foreign material away from this solution. DO NOT FREEZE.

CONDITIONS OF SALE AND WARRANTY

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use. TO THE EXTENT PERMITTED BY LAW, SELLER DOES NOT MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS. Seller offers this product, and the Buyer accepts it, subject to the foregoing Conditions of Sale and Warranty. Seller is not authorized to vary or exceed the terms of this Warranty in any manner.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Carefully read and follow the instructions for the CHEMTREAT CL-3000 disinfectant agent.
*NOT FOR USE IN CALIFORNIA

DIRECTIONS FOR USE

AGRICULTURAL PREMISES AND EQUIPMENT

TREATMENT OF POULTRY CHILLER WATER/CARCASS SPRAY AND DIP BACTERIA
When used in a pre-chiller or chiller tank, add CHEMTREAT CL-3000 to water at a dose of 1:6000 - 1:1000. When used as a carcass spray or dip solution, add CHEMTREAT CL-3000 to water at a dilution ratio of 1:3000 to maintain a maximum residual of 3 ppm (3.0 mg/L) chlorine dioxide (0.5-3 ppm (3.0 mg/L) residual measured immediately following the carcass spray or in the occupational setting must wear gloves).

COMMERCIAL, INSTITUTIONAL AND INDUSTRIAL PREMISES AND EQUIPMENT

GENERAL DISINFECTANT
This product may be used to disinfect (100 ppm for 10 minutes - a dilution ratio of 1:30) to kill slimes, and mildews; and to remove slimes (50 ppm for 12 hours continuous treatment - dilution ratio of 1:300). This product can be used to control microbial contamination, slime and odor in food processing surfaces.

FOOD PROCESSING PLANTS, FOOD HANDLING ESTABLISHMENTS AND RESTAURANTS
SANITIZING SOLUTION FOR FOOD CONTACT SURFACES
Prior to sanitization, remove all gross food particles and soil by use of a pre-rinse, pre-scrape. CHEMTREAT CL-3000 by using a dilution ratio of 1:120 to 1:50. Using a commercial sprayer, 3000. Allow surfaces to remain wet for at least 1 minute. The diluted CHEMTREAT CL-3000 must wear a half-face respirator with acid gas cartridge and N95 filter. This product is effective against *Salmonella enterica* serovar Typhi (ATCC 6339) and *Staphylococcus aureus* (ATCC 6538).

SANITIZING SOLUTION FOR NON-FOOD CONTACT SURFACES
Prior to sanitization, remove all gross food particles and soil. Prepare a 25-100 ppm solution of 1:30. Using a commercial sprayer, saturate all surfaces with the diluted CHEMTREAT CL-3000. The diluted CHEMTREAT CL-3000 may be irritating if inhaled. For spraying operations, use mist or filter.

SANITIZER FOR FOOD-PROCESSING EQUIPMENT IN DAIRIES, BREWERIES AND
Prior to sanitization, remove all gross food particles and soil by use of a pre-rinse, pre-scrape. *Salmonella enterica* serovar Typhi (ATCC 6339) and *Staphylococcus aureus* (ATCC 6538). G followed by a potable water rinse. Prepare a 25-100 ppm solution of CHEMTREAT CL-3000. circulate, wipe or spray the target surface with the food contact sanitizing solution to make sure it reach in-place equipment, pipes, closed vessels, etc., must be filled with the sanitizing solution. CHEMTREAT CL-3000 may be irritating if inhaled. For spraying operations, use mist or filter. DO NOT allow the food contact sanitizing solution to drip from all treated surfaces and air dry. DO NOT may not be reused for sanitizing but may be diluted to 1:10 with water and used for cleaning of surfaces. Prior to sanitization, remove all gross food particles and soil. Prepare a 25-100 ppm solution of CHEMTREAT CL-3000 by using a dilution ratio of 1:120 to 1:50. Apply the solution thoroughly wetting surfaces with a cloth, mop, sponge, sprayer, or immersion. Treat surfaces with cloth, sponge or mop or allow to air dry. The diluted CHEMTREAT CL-3000 may be irritating if face respirator with acid gas cartridge and N95 filter.

ICE MAKING PLANTS AND MACHINERY
Treat as required. Always apply freshly prepared CHEMTREAT CL-3000. DO NOT use for ice making machinery should be disassembled and thoroughly cleaned using a suitable detergent. CL-3000 to the incoming water line of the ice machine via a chemical feed pump or injector system (1:150).

CANNING RETORT AND PASTEURIZER COOLING WATER
All tanks, tunnels, conveyor chains, heat exchangers, heat exchange towers, lines, spray bars and completely rinsed using clean, potable water prior to treatment. Add CHEMTREAT CL-3000 to spray systems, towers, lines and all water containing parts of the system dose at start-up, 5 ppm chlorine dioxide concentration in the water system, a timed or electronically controlled additions to the system or for treating the make-up water. Fresh CHEMTREAT CL-3000 should be used in stainless steel transfer lines, hydrocoolers and pasteurizers. Clean equipment or line thoroughly using a suitable detergent followed by a clean, potable water. make-up water at a dose of 20 ppm chlorine dioxide (dilution ratio of 1:150) for each tank and equipment overnight. Drain and allow to air dry just prior to next run start-up. PROCESS WATER FOR VEGETABLE RINSES, TANKS AND LINES
All tanks, flumes and lines must be thoroughly cleaned with a suitable detergent and completely rinsed with clean, potable water. Add CHEMTREAT CL-3000 to start-up with a maximum dose of 5 ppm tanks or vegetable rinse tanks may be batch treated using a chemical feed pump or injector agricultural commodities. Make-up waters should be treated using a chemical feed pump or injector. For fruit and vegetables that will be processed (i.e. chopped, sliced, peeled, cooked, canned, etc.) against *Klebsiella terrigena*, *Poliovirus* and *Rotavirus*.
Note: Chemical feed pumps and injectors must be chlorine resistant for best operation. Available approved chlorine dioxide test kit

DIRECTIONS FOR USE
to a manner inconsistent with its labeling
the CHEMTREAT CL-3000 disinfectant equipment provided by the manufacturer or its authorized

WATER-CARCASS SPRAY AND DIP WATER TO CONTROL SPOILAGE-CAUSING
Add CHEMTREAT CL-3000 to water at a dose of 0.5 ppm (50 mg/L) chlorine dioxide (a dilution ratio of 1:120 to 1:600). For a maximum dose of 10 ppm (1000 mg/L) (a dilution ratio of 1:120 to 1:600). Adjust feed dosage to maintain a residual of 3 ppm (30 mg/L) chlorine dioxide in the dip water. Handlers applying chlorine dioxide in an

WATER PREMISES AND EQUIPMENT

10 minutes - a dilution ratio of 1:300 to treat, control and prevent fungus, bacteria, and algae, for 12 hours continuous treatment - dilution ratio of 1:600 in non-potable water systems.

VEGETABLES AND RESTAURANTS

minimize, slime and odor in food processing waters and to sanitize previously cleaned food contact

IT SURFACES

and used by use of a pre-rinse, pre-soak or pre-soak treatment. Prepare a 25-50 ppm solution of CHEMTREAT CL-3000. Saturate all surfaces with the diluted CHEMTREAT CL-3000 at a dilution ratio of 1:120 to 1:600. Using a commercial sprayer, saturate all surfaces with the diluted CHEMTREAT CL-3000 at a dilution ratio of 1:120 to 1:600. For spraying operations, use the diluted CHEMTREAT CL-3000 at a dilution ratio of 1:120 to 1:600. This product is effective against *Salmonella enterica* serovar Typhimurium (ATCC 6539) and N95 filter. This product is effective against *Salmonella enterica* serovar Typhimurium (ATCC 6539)

CONTACT SURFACES

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WATER PREMISES AND EQUIPMENT

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TREATMENT TO EXTEND FRESHNESS AND SHELF

1) Before treatment, whole fruits and vegetables should be

2) Add CHEMTREAT CL-3000 to water in an immersion

3) Immerse the previously cleaned fruit and vegetable and

4) Drain and rinse with clean water before re-use. To prevent

5) 5.0 ppm (2.0 to 5.0 mg/L) chlorine dioxide (a dilution ratio of 1:1500 to 1:600)

6) FORMING ALGAE (AND/OR BACTERIA)

Using typical oxidizing agents on these membranes can cause irreparable damage due to the presence of free chlorine. However, testing has shown that

chlorine content of CHEMTREAT CL-3000 is less than 10 PPM, thus it is possible to use diluted CHEMTREAT CL-3000 on these membranes.

3000 will be sufficient to prevent biofilm fouling of the membrane. A dosage rate above 0.5 PPM may adversely affect the membrane due to the oxidizing

strength of CHEMTREAT CL-3000. The variation depends on the feed water composition and the amount of organic material present in the feed water.

The appropriate dosage rate must be determined by laboratory testing. Caution: the dosage rate of CHEMTREAT CL-3000 should never exceed a level of

0.5 PPM and should always be a minimum of 0.1 PPM. While using CHEMTREAT CL-3000 there will be no increase in the amount of only passing

through an RO membrane. This is a valid indicator that the membrane is not damaged. An automatic sensor should be used to regulate the CHEMTREAT

CL-3000 level in the system. Either a chlorine dioxide sensor or potentiostat analyzer with the ability to measure in the level of sub-part per million

should be used. To avoid damage to the membrane, the dosing system to inject CHEMTREAT CL-3000 into the feed water should be controlled by the

monitoring sensor and should automatically stop dosing if levels exceed the maximum levels. Appropriate testing by the customer is recommended.

Care should be used when using CHEMTREAT CL-3000 on cellulose-based membranes. CHEMTREAT CL-3000 should never be used with Ion Exchange resin or EDI membrane system.

NOTE: Do not add CHEMTREAT CL-3000 in the presence of sodium bisulfite or any other reducing agent which may be added to the feedwater

FOR MICROBIAL CONTROL IN SWEETWATER COOLING SYSTEMS

CHEMTREAT CL-3000 may be batch loaded or metered into sweetwater cooling systems at the rate of 3.0 ppm (30 mg/L), a dilution ratio of 1:3000

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STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep containers tightly closed when not in use. Store in original container in a dark, dry place away from

extremes of heat or freezing conditions. Do not store with easily oxidizable materials, acids, bases, or combustible materials.

This product is to be used as directed within 9 months of the manufacture date indicated on the front panel of this label.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of pesticide, prepared solutions, or rinsate is a

violation of Federal law. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control

Agency, or the Hazardous Waste representative of your nearest EPA Regional Office for guidance.

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly

after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank. Fill the container 1/4 full with

water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30

seconds. Stand the container on its end and tip it back and forth several times. Turn the container over on its other end and tip it back and

forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure

two more times. Then offer for recycling, or puncture and dispose of in a sanitary landfill or by incineration, or if allowed by local and State

authorities, by burning. If burned, stay out of smoke.

Manufacturing date:

EPA REG. NO. 75757-2-15300

EPA EST. NO. 75757-PA-1

Expiry Date:

1/4/21

Lot #

Manufactured for:

ChemTreat, Inc.

5640 Cox Road

Glen Allen, Virginia 23060

Net Content:

30 Gallons

Made in the USA

REV. 04/2017

4/9/20

NSF

CERTIFIED TO

NSF/ANSI 60

Maximum use for potable

water: 670 mg/L

200409-3-22408
CTCL3000-304

R/L CARRIERSFREIGHT BILL NO. **I418381083**DATE **04/13/20** PAGE **1/2****HAZ**REMIT TO
P.O. BOX 271
WILMINGTON, OH
45177-0271R/L CARRIERS 800-543-5589
R/L GLOBAL 888-706-3589
R/L TRUCKLOAD 877-510-9133One Call-One Carrier • **RLCarriers.com**SERVICES BELOW MAY REQUIRE ADDITIONAL CHARGES: ☒ CHECK BOX & INITIAL
☐ LIFTGATE ☐ INSIDE DELIVERY ☐ LIMITED ACCESS (RESIDENTIAL)
☐ SORT/SEGREGATE ☐ DETENTION (TIME IN TIME OUT)ORIGINATING TERMINAL
NOT/AREA 175DESTINATION TERMINAL
DVP/AREA 125

LOADED ON

DVP OF0611

FREIGHT TERMS

PREPAIDBILL TO **C38137****CHEMTREAT INC/CTSI****5100 POPLAR AVE STE 1750****MEMPHIS TN 38137**SHIPPER **C83782****CHEMTREAT INC****361 W CEDAR ST****ALLENTOWN PA 18102**B/L NO. **2144014A****484****821-0780**PICKUP **LE2387****AMA280 319 622-2475****AMANA CO LP DBA AMANA APPL****2800 220TH TRL****AMANA IA 52204**

NO	PIECES	IND	TYPE	H/M	DESCRIPTION OF ARTICLES	WEIGHT / LB	RATE	PREPAID	COLLECT
1	DRM	X			UN1760, CORROSIVE LIQUIDS, N.O.S., 8, PGIII, (0.3% CHLORINE DIOXIDE AQUEOUS SOLUTION) NMFC# 4415582 CHEMICAL EMERGENCY #800-424-9300 CONTRACT# CCN4668 OFFERER NAME CHEMTREC FUEL SURCHARGE 6.00% HAZARDOUS MATERIAL CHARGE BOL READS... AMANA REFRIGERATION CUSTOMER# 26799-03	265			

CHARGES

Collect This Amount

R/L TRANSFER, INC. • GATOR FREIGHTWAYS, INC. • GREENWOOD MOTOR LINES, INC.

PARAMOUNT TRANSPORTATION SYSTEMS, INC.

R/L CARRIERS

CUSTOMER COPY

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NOT/AREA 175DESTINATION TERMINAL
DVP/AREA 125

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NO	PIECES	IND	TYPE	H/M	DESCRIPTION OF ARTICLES	WEIGHT / LB	RATE	PREPAID	COLLECT
1					P O # CONTRACT P O # 3464525 BOL READS... WASTEWATER TREATMENT * RECEIVING HRS: 7A-3P ATTN: JIM WELDON ATTN: JIM WELDON PHONE: 319 622 2265 1 SKD STC 1 DRUM OF HZ FOR URGENT SHIPMENTS, OUR EXPEDITED INTERNATIONAL AND SUPPLY CHAIN SOLUTION	265			

CHARGES

Collect This Amount

FOR URGENT SHIPMENTS, OUR EXPEDITED
SERVICE WILL FIT YOUR INDIVIDUAL NEEDS

DVPFC 5

R/L TRANSFER, INC. • GATOR FREIGHTWAYS, INC. • GREENWOOD MOTOR LINES, INC.

PARAMOUNT TRANSPORTATION SYSTEMS, INC.

R/L CARRIERS

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Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Product Compliance Department; ProductCompliance@chemtreat.com

Revision Date: February 14, 2019

Disclaimer

Although the information and recommendations set forth herein (hereinafter "information") are presented in good faith and believed to be correct as of the date hereof, ChemTreat, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. In no event will ChemTreat, Inc. be responsible for damages of any nature whatsoever resulting from the use or reliance upon information. No representation or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature are made hereunder with respect to information or the product to which information refers.