MATERIAL SA	AFETY DATA SHEET (MSDS)
MANUFACTURER/DISTRIBUTOR NAME:	H & S MANUFACTURING, INC. #182 (1)
ADDRESS:	727 EAST BROADWAY
	WILLISTON, ND 58801
EMERGENCY TELEPHONE NUMBER:	CONTACT YOUR LOCAL POISON INFORMATION CENTER PHONE (24 hr) TECHNICAL (800) 827-3091
EFFECTIVE DATE: 5/1/96	PHONE (24 III) TECHNICAL (000) 027-3091
PRODUCT NAME: SPRINGTIME" CLEAN-UP ABS	ORBENTLEOWDER
and a second	INGREDIENTS HMIS: Health 0/0
DIATOMACEOUS EARTH	Fire 0/0
	PERCENTAGE: 15-35% Reactivity 0/0 Special 0/0
TLV: 10mg/M3	Special 0/0
BOILING POINT: N/A SPECIFIC GRAV PERCENT VOLATILE BY VOLUME: 0 EVAPORATION RATE: N/A SOLUBILITY IN WATER: NEGLIGIBLE APPEARANCE AND ODOR: GRANULAR WHITE SO	VAPOR DENSITY: N/A
FLASH POINT: NONE LEL: N/A EXTINGUISHING MEDIA: WATER, CO2, FOAM, SPECIAL FIRE FIGHTING PROCEDURES: AVOI	
	EACTIVE HAZARDS
NDITIONS TO AVOID: KEEP AWAY FROM HE INCOMPATABILITY: HYDROFLOURIC ACID, ST HAZARDOUS DECOMPOSITION PRODUCTS: NONE HAZARDOUS POLYMERIZATION: WILL NOT OCC CONDITIONS TO AVOID: HIGH DUST CONCENT	RONG OXIDIZING AGENTS LUR RATIONS
	HEALTH HAZARDS IPORARY IRRITATION OR INFLAMMATION OF THE EYE, NOSE
INHALATION: REMOVE PERSON TO FRESH AIF SKIN OR EYE CONTACT: FLUSH WITH RUNNIN	IST AID PROCEDURE WE WATER FOR SEVERAL MINUTES. TER. DO NOT INDUCE VOMITING. SEE A PHYSICIAN.
STEPS TO BE TAKEN IN CASE MATERIAL IS F BECAME WET AND GELLED, SHOVEL UP O SURFACE UPON WHICH MATERIAL HAS BE WASTE DISPOSAL METHOD: COMPLY WITH LOO PRECAUTIONS. RCPA: NON-HAZARDOUS PRECAUTIONS TO BE TAKEN IN HANDLING AND PRODUCT FROM MOISTURE. KEEP OUT O	DLING PROCEDURES RELEASED OR SPILLED: VACUUM DRY SPILL. IF SPILL OR HOSE IT DOWN WITH COPIOUS AMOUNTS OF WATER. EEN APPLIED WILL BECOME SLIPPERY WHEN WET. CAL, STATE AND FEDERAL REGULATIONS. NO MAJOR D STORAGE: STORE IN COOL, DRY PLACE TO PROTECT OF REACH OF CHILDREN. OPERATORS APPLYING LARGE PROVED DUST RESPIRATORS AND GOGGLES.
RESPIRATORY PROTECTION (SPECIFY TYPE):	PROTECTION INFORMATION FOR USE WITH LARGE AMOUNTS OF MATERIAL. WEAR NIOSH APPROVED RESPIRATOR AS REQUIRED. EQUATE. PROTECTIVE GLOVES: NOT REQUIRED.

CALCIUM HYPOCHLORITE

MSDS

PRODUCT INFORMATION CHEMICAL NAME: Calcium hypochlorite.	
CHEMICAL NAME: Calcium hypochiorite.	
SYNONYMS:	
Calcium oxychloride, bleaching powder, chlorinated lime, granulated	
chlorinem, and Chloryte 65%.	
CHEMICAL FAMILY: Salt of hypochlorous acid.	
MOLECULAR FORMULA: Ca(OC1)2	
SHIPPING NAME: Calcium hypochlorite.	
PIN - (UN/NA): UN1748 C15.1(9.2) P.G.II	
WHMIS: Exempt (P.C.P. regulated). PRODUCT USE:	
Disinfection in swimming pools and drinking water supplies; treatment of industrial cooling water; slime control; odour control; sewage and waste water treatment.	
MANUFACTURER: Saskatoon Chemicals Ltd.	
Box 1586 Saskatoon, SK S7K 3R3	
EMERGENCY TELEPHONE NUMBER: (306) 931-7767	
SUPPLIER: PrairieChem Inc.	
231 Robin Crescent	
Saskatoon, SK S7L 6M8	
EMERGENCY TELEPHONE NUMBER: (306) 664-2522	
HAZARDOUS INGREDIENTS	
INGREDIENTS: WEIGHT % C.A.S. REGISTRY NUM Calcium hypochlorite 65 7778-54-3 Calcium hydroxide 4 1305-62-0	BER:
Inerts 35	
PHYSICAL DATA	
PHYSICAL STATE: Solid ODOUR AND APPEARANCE: White, granular solid, with a strong chlorine odour. ODOUR THRESHOLD: Not available. VAPOUR PRESSURE: Not applicable. VAPOUR DENSITY: Not applicable. EVAPORATION RATE: Not applicable. pH: 11.5 (5% solution) BOILING POINT: Not applicable. SPECIFIC GRAVITY: 2.00-2.20 @ 20 MELTING POINT: Decomposes at temperatures above 1000 C. SOLUBILITY IN WATER: 21% @ 20 °C. MOLECULAR WEIGHT: 142.98 % VOLATILE BY VOLUME: Not available. COEFFICIENT OF WATER/OIL DISTRIBUTION: Not applicable.	°c.
FIRE AND EXPLOSION DATA	
CONDITIONS OF FLAMMABILITY: Not available. MEANS OF EXTINGUISHING: Drench with water, and cool surrounding products and area with water. Wat in contact with hot Hypochlorites can release hydrochloric acid or chlor: gas. Use appropriate self-contained breathing apparatus when any material involved in a fire. FLASH POINT: Not combustible (does not burn). Be aware that calcium hypochlorite can decompose violently at temperatures above 100°C, releasing heat and oxyge gas. UPPER FLAMMABLE LIMIT: Not applicable.	ine l is
LOWER FLAMMABLE LIMIT: Not applicable.	

MSDS

CALCIUM HYPOCHLORITE

FIRE AND EXPLOSION DATA AUTO IGNITION TEMPERATURE: Not applicable. HAZARDOUS COMBUSTION PRODUCTS: Oxygen, chlorine, and chlorine monoxide. SPECIAL FIRE FIGHTING PROCEDURES: Use water only. Drench with water and cool surrounding products and area with water. Water in contact with hot hypochlorites can release Hydrochloric acid or chlorine gas. Use appropriate self-contained breathing apparatus when any material is involved in a fire. EXPLOSION HAZARDS: Powerful oxidizing material. With acids, evolves chlorine at ambient temperatures. On combustion, and with subsequent decomposition, evolves oxygen at higher temperatures. Readily ignites combustible materials and strong reducing agents when in contact. May undergo accelerated decomposition with evolution of heat. Contamination or mixing with any foreign material may result in a fire of great intensity. REACTIVITY DATA STABILITY: Stable (up to 180 °C). HAZARDOUS POLYMERIZATION: Will not occur. INCOMPATIBILITY: AMMONIA, UREA AND AMINES - form reactive, toxic chloramines. ACIDS - release chlorine gas. METAL OXIDES - can react violently. HAZARDOUS REACTIONS/DECOMPOSITIONS: Calcium hypochlorite is a strong oxidizing agent. Mix only into water. Contamination may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible fire and explosion. CONDITIONS TO AVOID: Calcium hypochlorite should be kept away from household soap, suntan lotions, paint products, solvents, acids, beverages, lighted cigarettes, combustible materials, garbage, dirt, dirty rags, organic materials, and other pool chemicals. Mixing with any of the above materials can initiate a hazardous decomposition of calcium hypochlorite. Calcium hypochlorite should not be mixed with anything but water. HEALTH HAZARD DATA INHALATION: Dust and mist irritate the nose and throat. When mixed with acids, chlorine gas is released. This gas causes irritation of the respiratory tract. Prolonged exposure to high concentrations of chlorine gas may result in severe lung damage. SKIN CONTACT: Calcium hypochlorite dust and solutions can cause irritation, and in severe cases, chemical burns. EYE CONTACT: Exposure to calcium hypochlorite can cause eye irritation. Concentrated solutions cause burns which may result in permanent eye damage if not promptly treated. INGESTION: When ingested, there will be burning in the mouth and throat. Calcium Hypochlorite can cause abdominal cramps and nausea which may lead to convulsions, coma, and death.

CHRONIC EXPOSURE EFFECTS:

Skin irritation may occur from repeated or prolonged skin contact. EXPOSURE LIMITS: (TLV-TWA) Not available.

IRRITANCY: Not available. MUTAGENICITY: Not available. CARCINOGENICITY: Not carcinogenic (IARC and ACGIH).

MSDS

CALCIUM HYPOCHLORITE

HEALTH HAZARD DATA

SENSITIZATION TO PRODUCT: Not available. REPRODUCTIVE TOXICITY: Not available. TOXICOLOGICALLY SYNERGISTIC MATERIALS: Not available. TERATOGENICITY DATA: Not available. ANIMAL TOXICITY DATA: LC₅₀: (Inhalation, rats) - 148 mg/l (65% Calcium Hypochlorite) LD₅₀: (Oral, rats) - 1300 mg/kg (65% Calcium Hypochlorite)

OTHER HEALTH EFFECTS: None known.

FIRST AID MEASURES

INHALATION:

Remove source of contamination or move victim to fresh air. If breathing has stopped, trained personnel should begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Obtain medical attention immediately.

SKIN CONTACT:

As quickly as possible, flush contaminated area with lukewarm, gently running water for at least 15 minutes. Under running water, remove contaminated clothing, shoes, and leather goods. Obtain medical attention immediately. EYE CONTACT:

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes, holding the eyelid(s) open. Take care not to rinse contaminated water into the non-affected eye. Obtain medical attention immediately.

INGESTION:

Never give anything by mouth if victim is rapidly losing consciousness, or is unconscious or convulsing. Have victim rinse mouth thoroughly with water. Do not induce vomiting. Have victim drink one cup (240-300 ml, 8-10 oz.) of water to dilute material in stomach. If vomiting occurs naturally, rinse mouth and repeat administration of water. If breathing has stopped, trained personnel should begin artificial respiration or, if the heart has stopped, cardiopulmonary resuscitation (CPR) immediately. Obtain medical attention

PREVENTATIVE MEASURES

RESPIRATORY PROTECTION:

Dust mask or NIOSH approved canister type respirators suitable for chlorine. SKIN PROTECTION:

Impervious gloves, body suits, boots, and/or other resistant protective clothing. Have a safety shower/eye wash fountain readily available in the immediate work area.

EYE/FACE PROTECTION:

Chemical safety goggles. A face shield may be necessary.

SPECIAL HANDLING PROCEDURES:

Avoid generating dust. Avoid mixing pure material with contaminated material. Use smallest possible amounts in designated areas with adequate ventilation. STORAGE REQUIREMENTS:

Store in original container. Store tightly closed containers in a clean, cool, open or well ventilated area. Keep out of sun.

ENGINEERING CONTROLS:

Local exhaust ventilation required where exposure to dust might occur. SPECIAL SHIPPING REQUIREMENTS:

Transportation in Canada is governed by Transport Canada. Refer to the Transportation of Dangerous Goods (TDG) Regulations for special shipping requirements for calcium hypochlorite. Transport in the U.S. is governed by the Department of Transport (DOT). Refer to DOT regulations (CFR 49) for special shipping requirements for calcium hypochlorite (UN1748).

MSDS	CALCIUM HYPOCHLORITE
ENVIRONMENTAL PROTECTION DATA	TA
STEPS IN THE EVENT OF A LEAK OR	OR SPILL:
Restrict access to area until con	Restrict access to area until completion of cleanup. Wear adequate personal
protective equipment. Extinguish area. Do not touch spilled materi	protective equipment. Excinguism of remove all ignition sources, ventifate area. Do not touch spilled material. Prevent material from entering sewers or
confined spaces. Shovel into clea	
water. Contaminated materials may reducing agent such as sodium sul	water. Contaminated materials may be dissolved in water then treated with a reducing agent such as sodium sulphite. Care should be taken handling
e to	fire risk.
Harmful to aquatic life in low co	low concentrations.
CODING SUITING COMPANY.	000000000000000000000000000000000000000
use acids, since chlorine gas will be liberated.	הבדרואדתה כמוו הה תמכתי הי
	State/Provincial, and local regulatory
authorities to ascertain proper d	proper disposal procedures. Care should be taken not
to mix waste calcium nypochiorite hypochlorite should be dissolved	to mix waste calcium nypochiorite with incompatible material. Calcium hypochlorite should be dissolved in water, and the available chlorine treated
using a reducing agent such as so	sodium sulphite.
PREPARATION INFORMATION	
MSDS PREPARED BY: Technical Department	bartment
· PrairieChem Inc.	
TELEPHONE NUMBER: (306) 664-2522	22
DATE PREPARED/REVISED: December	er 13, 1991
SENCES:	
 Manufacturer's MSDS and public Hawley, Gessner G. "The Conden 	publications of the Chlorine Institute Inc. Condensed Chemical Dictionary. Tenth Edition" (Van
Nostrand Reinhold Co.) 1	



SAFETY DATA SHEET

1. Identification

1. Identification		
Product identifier	QT-TB	
Other means of identification		
SDS number	538N-57A	
Product code	HIL01011	
Product registration number	1839-83-1658	
Recommended use	Disinfectant/Cleaner	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Manufacturer		
Company name	HILLYARD INDUSTRIES	
Address	302 North Fourth St.	
Contact nerven	St. Joseph, MO 64501	
Contact person Telephone number	Regulatory Affairs (816) 233-1321 (Ext. 8285)	
Fax	(816) 383-8485	
E-mail	regulatoryaffairs@hillyard.com	
Emergency telephone #	(800) 424-9300	
	(Only in the event of chemical emergency inv or accident involving chemicals.)	olving a spill, leak, fire, exposure,
2. Hazard(s) identification		
Physical hazards	Flammable liquids	Category 4
Health hazards	Serious eye damage/eye irritation	Category 2B
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Combustible liquid. Causes eye irritation.	
Precautionary statement		
Prevention	Keep away from heat/sparks/open flames/hot handling. Wear protective gloves/eye protecti	t surfaces No smoking. Wash thoroughly after on/face protection.
Response	If in 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. In case of fire: Use appropriate media to extinguish.	
Storage	Store in a well-ventilated place. Keep cool.	
Disposal	Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law in compliance with applicable federal, state and local requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	None.	

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-(2-butoxyethoxy)ethanol		112-34-5	5 - < 10
Tetrasodium ethylenediamine tetraacetate		64-02-8	1 - < 3
Alkyl (68% C12, 32% C14) dime ethylbenzyl ammonium chloride		85409-23-0	< 0.2
Alkyl dimethyl benzyl ammoniur chloride (C12-18)	n	68391-01-5	< 0.2
Other components below report	able levels		90 - 100
*Designates that a specific chemic	al identity and/or percentage of composition has be	een withheld as a trade s	ecret.
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms d	evelop or persist.	
Skin contact	Wash off with soap and water. Get medical atten	tion if irritation develops a	and persists.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, in present and easy to do. Continue rinsing. Get medical attention if irritation develops and pers		
Ingestion	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convul Do not induce vomiting without advice from poison control center. If vomiting occurs, keep h low so that stomach content doesn't get into the lungs. NOTE TO PHYSICIAN: Probable mu damage may contraindicate the use of gastric lavage.		
Most important symptoms/effects, acute and delayed	Irritation of eyes. Exposed individuals may exper	ience eye tearing, rednes	s, and discomfort
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat s Symptoms may be delayed.	ymptomatically. Keep vic	tim under observa
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions t protect themselves.		
5. Fire-fighting measures			
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 w	vill spread the fire.	
Specific hazards arising from the chemical	The product is combustible, and heating may gen mixtures. During fire, gases hazardous to health		form explosive va
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full prote	ective clothing must be wo	orn in case of fire.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fu so without risk.	mes. Move containers fro	om fire area if you
Specific methods	Use standard firefighting procedures and conside	er the hazards of other inv	volved materials.
General fire hazards	Combustible liquid.		
6 Accidental release meas			

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. This product is miscible in water.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke. Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL. PESTICIDE STORAGE - Store in a dry place no lower in temperature than 50°F or higher than 120°F.
	Keep away from heat, sparks and open flame. Store away from incompatible materials (see Section 10 of the SDS).
	Do not contaminate water, food or feed by storage or disposal. Pesticide Storage: Open dumping is prohibited. Store in original container in areas inaccessible to children.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Туре	Value	Form
2-(2-butoxyethoxy)ethanol (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
Biological limit values	No biological exposure limits noted for the ingredient(s).		
Appropriate 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. Provid eyewash station.		
Individual protection measures	s, such as personal protective equipmen	t	
Eye/face protection	Use safety eyewear with splash guards	or side shields, chemical go	oggles, or face shields.
Skin protection			
Hand protection	Wear protective gloves.		
Other	None normally required. If unable to ave impervious clothing.	id prolonged or repeated c	ontact with skin, wear
Respiratory protection	Not normally required with adequate ver concentrations below recommended exp (in countries where exposure limits have worn.	posure limits (where application	able) or to an acceptable level
Thermal hazards	Wear appropriate thermal protective close	thing, when necessary.	
General hygiene considerations	When using do not smoke. Always obse after handling the material and before ea clothing and protective equipment to ren	ating, drinking, and/or smol	

9. Physical and chemical properties

Appearance	Clear, colorless liquid
Physical state	Liquid.
Form	Liquid.
Color	Colorless
Odor	Lemon odor
Odor threshold	Not available

Material name: QT-TB HIL01011 Version #: 01 Issue date: 04-04-2015

pН	12 - 13 Concentrate
Melting point/freezing point	Not applicable / Not available
Initial boiling point and boiling range	210 °F (98.89 °C)
Flash point	> 180.0 °F (> 82.2 °C) Tag Closed Cup
Evaporation rate	< 1 (ethyl ether = 1)
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.36 mm Hg
Vapor density	1.03 Air = 1
Relative density	1.02 at 77°F
Solubility(ies)	
Solubility (water)	100 % Complete
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Other information	
Density	8.49 lb/gal
Percent volatile	96.5 - 97.5 %
VOC (Weight %)	8.01 %

10. Stability and reactivity

Reactivity	Reacts violently with strong acids. This product may react with oxidizing agents.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Do not mix with other chemicals. Contact with incompatible materials.
Incompatible materials	Acids. Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

· · · · · · · · · · · · · · · · · · ·			
Information on likely routes of	exposure		
Inhalation	Prolonged inhalation may be harmful.		
Skin contact	No adverse effects due to skin contact are expected.		
Eye contact	Causes eye irritation.		
Ingestion	Expected to be a low ingestion hazard.		
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Exposed	individuals may experience eye tearing, redness, and discomfort.	
Information on toxicological ef	fects		
Acute toxicity	Toxicity data is not availab methods.	e for this mixture. Data below are estimates based on summation	
Product	Species	Test Results	
QT-TB			
Acute			
Dermal			
LD50	Rabbit	33750 mg/kg estimated	

Material name: QT-TB HIL01011 Version #: 01 Issue date: 04-04-2015

Product	Species	Test Results	
Inhalation			
LC50	Mouse	5882.353 mg/l, 2 Hours estimated	
		5871.021 mg/l, 4 Hours estimated	
	Rat	12058.8232 mg/l, 0.5 Hours estimated	
		7058.8237 mg/l, 4 Hours estimated	
Oral			
LD50	Guinea pig	24837.5996 mg/kg estimated	
	Mouse	27265.4043 mg/kg estimated	
	Rabbit	27500 mg/kg estimated	
	Rat	48439.9336 mg/kg estimated	
Components	Species	Test Results	
2-(2-butoxyethoxy)ethanol (CAS	112-34-5)		
Acute			
Dermal	Rabbit	2700 malka	
LD50	Γαυμι	2700 mg/kg	
<i>Oral</i> LD50	Guinea pig	2000 mg/kg	
	Mouse	2400 mg/kg	
	Rabbit	2200 mg/kg	
T - 4	Rat	4500 mg/kg	
Tetrasodium ethylenediamine tetr	aacetate (CAS 64-02-8)		
Acute Oral			
LD50	Rat	> 2000 mg/kg	
		5 5	
	be based on additional component data		
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.		
Serious eye damage/eye irritation	Causes eye irritation.		
Respiratory or skin sensitizatio			
Respiratory sensitization	Not a respiratory sensitizer.		
Skin sensitization	This product is not expected to cause		
Germ cell mutagenicity	mutagenic or genotoxic.	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be	a carcinogen by IARC, ACGIH, NTP, or OSHA.	
	ulated Substances (29 CFR 1910.100	1-1050)	
Not listed.	<u>-</u>		
Reproductive toxicity		e reproductive or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.		
Specific target organ toxicity - repeated exposure	Not classified.		
Aspiration hazard	Prolonged inhalation may be harmful		
Chronic effects	Prolonged inhalation may be harmful		
12. Ecological information	n		
Ecotoxicity	The product is not classified as envir	onmentally hazardous. However, this does not exclude th	
	possibility that large or frequent spills	can have a harmful or damaging effect on the environme	

Product		Species	Test Results
QT-TB			
Aquatic			
Crustacea	EC50	Daphnia	27111.5469 mg/l, 48 hours estimated
Fish	LC50	Fish	14750.9004 mg/l, 96 hours estimated
Components		Species	Test Results
2-(2-butoxyethoxy)ethanol (CA	AS 112-34-5)		
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	1300 mg/l, 96 hours
Tetrasodium ethylenediamine	tetraacetate (CAS 64-02-8)	
Aquatic			
Fish	LC50	Bluegill (Lepomis macrochirus)	472 - 500 mg/l, 96 hours
* Estimates for product may be	e based on ad	ditional component data not shown.	
ersistence and degradability	No data is a	vailable on the degradability of this product	
oaccumulative potential			
Partition coefficient n-octan 2-(2-butoxyethoxy)ethanol	ol / water (log	Kow) 0.56	
obility in soil	No data ava	ilable.	
ther adverse effects		verse environmental effects (e.g. ozone dep docrine disruption, global warming potentia	
3. Disposal consideratior	IS		
sposal instructions	PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. 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 Environmenta Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Buyer assumes all risk and liability associated with disposal of this product (original concentration or dilution) in violation of applicable law.		
ocal disposal regulations	Dispose in a	ccordance with all applicable regulations.	
azardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.		
aste from residues / unused oducts	PESTICIDE DISPOSAL – Pesticide wastes are acutely hazardous. 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 Environmenta Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.		
ontaminated packaging	container pro container on seconds. St over onto its times. Offer sanitary land	R DISPOSAL – Nonrefillable container. Do omptly after emptying. Triple rinse as follow its side and roll it back and forth, ensuring and the container on its end and tip it back other end and tip it back and forth several for recycling or reconditioning, if available. Ifill. Since emptied containers may retain pr er is emptied.	vs: Fill container ¼ full with water. Tip at least one complete revolution for 30 and forth several times. Turn the contai times. Repeat this procedure two more If not available, puncture and dispose ir

14. Transport information

DOT

Not regulated as dangerous goods.

15. Regulatory information

US federal regulations	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
	All components are on the U.S. EPA TSCA Inventory List or Exempt.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency relea	se notification
Not regulated. US. OSHA Specifically Reg	ulated Substances (29 CFR 1910.1001-1050)
Not listed.	
Superfund Amendments and Re Hazard categories	eauthorization Act of 1986 (SARA) Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No
SARA 302 Extremely hazar Not listed.	dous substance
SARA 311/312 Hazardous chemical	No
SARA 313 (TRI reporting) Not regulated.	
Other federal regulations Safe Drinking Water Act (SDWA)	Not regulated.
(SDWA) FIFRA Information	FIFRA: This product is a U.S. EPA Registered pesticide, EPA Reg. No. 1839-83-1658, and is subject to certain labeling requirements under Federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide products. The hazard information required on the pesticide label is reproduced here.
	PRECAUTIONARY STATEMENTS - HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION
	KEEP OUT OF REACH OF CHILDREN. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco.
	FIRST AID: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. 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 for treatment advice. If swallowed: Call a poison control center or doctor for treatment advice. If swallowed: Call a poison control center or swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not breathing, call 911 or an ambulance then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice. NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
US state regulations	
US. California Controlled S	ubstances. CA Department of Justice (California Health and Safety Code Section 11100)
Not listed. US. Massachusetts RTK - S	ubstance List
Not regulated. US. New Jersey Worker and Not listed.	I Community Right-to-Know Act
	nd Community Right-to-Know Law
Not listed. US. Rhode Island RTK	
Not regulated.	
	55 Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain isted as carcinogens or reproductive toxins.
International Inventories	
Country(s) or region United States & Puerto Rico	Inventory nameOn inventory (yes/noToxic Substances Control Act (TSCA) InventoryYes
	nents of this product comply with the inventory requirements administered by the governing country(s) components of the product are not listed or exempt from listing on the inventory administered by the governing
Material name: OT-TB	

16. Other information, including date of preparation or last revision

Issue date	04-04-2015
Version #	01
HMIS® ratings	Health: 1 Flammability: 2 Physical hazard: 0
Disclaimer	No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose, or of any nature are made with respect to the product(s) or information contained in this material safety data sheet. The information and recommendations contained in this Material Safety Data Sheet are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. All information contained herein is presented in good faith and is believed to be appropriate and accurate. The buyer or user assumes all risks associated with the use, misuse or disposal of this product. The buyer or user or disposal of these products.