

SAFETY DATA SHEET

1. Identification

Product identifier Solution, 10-16%

Other means of identification

SDS number 502-USA-OLN

Synonyms Tri-Lite® 100, Tri-lite® 150, Tri-lite® 160, Tri-Lite® 200, Sodium Hypochlorite 12.5%, Bleach,

Hypochlorite solution, Liquid bleach, Soda bleach solution, Sodium Hypochlorite 10%

Recommended use Biocide. Bleaching agent. Disinfectant. Water treatment.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Oltrin Solutions, LLC

Address PO Box 1195

11 E.V. Hogan Drive Hamlet, NC 28345-1195

Telephone 910-419-6589

E-mail oltrincs@trinitymfg.com

Emergency phone number CHEMTREC (US/Canada) 1-800-424-9300

CHEMTREC (International) +1 703-527-3887 (collect calls accepted)

2. Hazard(s) identification

Physical hazards Corrosive to metals Category 1

Health hazards Skin corrosion/irritation Category 1

Serious eye damage/eye irritation Category 1

Specific target organ toxicity, single exposure Category 3 (respiratory tract irritation)

Environmental hazards Hazardous to the aquatic environment,

acute hazard

Category 1

Hazardous to the aquatic environment,

lazardous to the aquatic environme

Category 2

long-term hazard

OSHA defined hazards

Not classified.

Label elements



Signal word DANGER

Hazard statement May be corrosive to metals. May cause respiratory irritation. Toxic to aquatic life with long

lasting effects.

Precautionary statement

Prevention Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe mist or

vapor. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Keep only

in original container. Avoid release to the environment.

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If inhaled: Remove person to fresh air and

keep comfortable for breathing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison

center/doctor. Wash contaminated clothing before reuse. Absorb spillage to prevent material

damage. Collect spillage.

Storage Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive

resistant container with a resistant inner liner.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Sodium Hypochlorite Solution, 10-16% SDS US

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Hazard(s) not otherwise classified (HNOC)

None known.

Supplemental information

Contact with acids liberates toxic gas.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Sodium hypochlorite	7681-52-9	10 - 16
Sodium hydroxide	1310-73-2	0.2 - 1.0
Water	7732-18-5	Balance

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Wash off IMMEDIATELY with plenty of water for at

least 15-20 minutes. Get medical attention immediately, Wash contaminated clothing before

reuse. Call a physician or poison control center immediately.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important

symptoms/effects, acute and

delayed

Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Indication of immediate medical attention and special treatment needed

General information

Treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. With eye exposure, continue flushing during transport to hospital.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

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 will spread the fire. Do not use dry extinguishing media that contains ammonium compounds.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Absorb spillage to prevent material damage. 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 Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: 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

Do not discharge into drains, water courses or onto the ground. Environmental manager must be informed of all major releases. See Section 14 for RQ reporting information.

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7. Handling and storage

Precautions for safe handling

Wear appropriate personal protective equipment. Do not get in eyes, on skin, on clothing. Use with adequate ventilation. Observe good industrial hygiene practices. Do not apply heat or direct sunlight. Temperature and product concentration affect product quality and decomposition rates.

Conditions for safe storage, including any incompatibilities Keep container tightly closed. Store in a cool, dry, well-ventilated place. Store in a corrosive resistant container. Consult container manufacturer for additional guidance. Store away from and do not mix with incompatible materials such as acids, oxidizers, organics, reducing agents, and all metals except titanium.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	PEL	2 mg/m3	
US. ACGIH Threshold Limit Values			
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. NIOSH: Pocket Guide to Chemical Hazards			
Components	Туре	Value	
Sodium hydroxide (CAS 1310-73-2)	Ceiling	2 mg/m3	
US. Workplace Environmental Exposure Level (W	EEL) Guides		
Components	Туре	Value	

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles) and a face shield. Wear a full-face respirator, if

needed.

Skin protection

Hand protection

Wear appropriate chemical resistant gloves.

Other

Wear appropriate chemical resistant clothing. Reports indicate that sodium hypochlorite can react with various fabrics usually increasing with concentration. Reactions vary significantly depending on strength of chemical, material, fabric treatment and color of dyes. FRC treated cotton has a stronger response than plain cotton. Poly blend fabrics and meta aramid fabric have a weaker response than natural fibers. Contact the Personal Protective Equipment manufacturer for specific information about their products.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

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equipment to remove contaminants.

9. Physical and chemical properties

Appearance Clear.

Physical state

Liquid. Liquid.

Form Color

Pale yellow - Straw colored

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рΗ

Melting point/freezing point -17 °F (-27.22 °C) Initial boiling point and boiling 231.8 °F (111 °C)

range

Not relevant. Flash point Not available. Evaporation rate Not available. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not relevant.

(%)

Flammability limit - upper

Not relevant.

(%)

Not relevant. Explosive limit - lower (%) Explosive limit - upper (%) Not relevant.

12 mmHg @ 20 °C (68 °F) for 12.5 % by weight solution Vapor pressure

Vapor density Not available.

Relative density 1.163 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 10.34)

1.203 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 12.52) 1.216 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 13.19) 1,255 @ 15.5 °C (60 °F) (Weight % Available Chlorine = 15.14)

Solubility(ies)

100 % Solubility (water)

Partition coefficient

Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. Decomposition temperature Not available. Viscosity

Other information

Bulk density 1.16 - 1.25 g/cm3

> @ 15.5 °C (60 °F) (Weight % Available Chlorine = 10.34) 10.03 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 12.52) 10.14 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 13.19) 10.46 lb/gal @ 15.5 °C (60 °F) (Weight % Available Chlorine = 15.14)

Molecular formula NaOCI Molecular weight 74.5 g/mol

10. Stability and reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport. Reactivity

Chemical stability Material is stable under normal conditions. Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid

Contact with incompatible materials. Avoid ultraviolet (UV) light sources. Excessive heat. Reacts

violently with strong acids. Acid contact will produce chlorine gas. Amine contact will produce

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chloramines.

Strong oxidizing agents. Acids. Metals: Organic compounds. Ammonia. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Vapors and spray mist may irritate throat and respiratory system and cause coughing. Inhalation

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Skin contact

Causes skin burns.

Eye contact

Causes eve burns.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea, Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

Symptoms related to the physical, chemical and toxicological characteristics Corrosive effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision,

Permanent eye damage including blindness could result.

Information on toxicological effects

Acute toxicity

Occupational exposure to the substance or mixture may cause adverse effects.

Product

Test Results

Sodium Hypochlorite Solution, 10-16% (CAS Mixture)

Acute

Dermal, LD50

Rabbit

3000 - 10000 mg/kg

Oral, LD50

Rat

8200 mg/kg

Skin corrosion/irritation

Causes severe skin burns and eye damage.

Serious eve damage/eve

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization

Not classified.

Skin sensitization

Not classified.

Germ cell mutagenicity

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Sodium hypochlorite (CAS 7681-52-9)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity

Not classified.

Specific target organ toxicity -

single exposure

May cause respiratory irritation.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not classified, however droplets of the product may be aspirated into the lungs through ingestion

or vomiting and may cause a serious chemical pneumonia.

Chronic effects

Prolonged or repeated overexposure causes lung damage.

Further information Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity

Toxic to aquatic life with long lasting effects. Low in toxicity to avian wildlife.

Product Species Test Results

Sodium Hypochlorite Solution, 10-16%

Aquatic

Crustacea

Fish

EC50

Daphnia magna

0.033 - 0.044 mg/l, 48 Hours

LC50

Daphnia magna

2.1 mg/l, 96 Hours

LC50 Bluegill (Lepomis macrochirus) 0.6 mg/l, 48 Hours

Persistence and degradability

The product contains inorganic compounds which are not biodegradable. Degrades slowly to

sodium chloride, sodium chlorate and oxygen.

Bioaccumulative potential

The product is not expected to bioaccumulate.

Mobility in soil

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No data available.

Other adverse effects

None known.

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13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

> and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport information

DOT

UN number

UN1791

UN proper shipping name

Hypochlorite solutions

Transport hazard class(es)

Class

8

Subsidiary risk

Label(s)

8

Packing group

111

Environmental hazards

Marine pollutant

Yes (Sodium hypochlorite solution)

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Special provisions

IB3, N34, T4, TP2, TP24

Packaging exceptions

154

Packaging non bulk / bulk

203 / 241

RQ

100 lbs. (Sodium Hypochlorite) For gallons of product equivalent to 100 lbs of available sodium hypochlorite, use the following: 98.7 gallons 10% by weight product, 75.9 gallons for 12.5% by

weight, 72.5 gallons for 13% by weight, 60.8 gallons for 15% by weight.

IATA

UN number

UN1791

UN proper shipping name

Hypochlorite solution

Transport hazard class(es)

Class

8

Subsidiary risk

Packing group

- 111

Environmental hazards

Yes

ERG Code

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number

UN1791

UN proper shipping name

HYPOCHLORITE SOLUTION

Transport hazard class(es)

Class

8

Subsidiary risk

Ш

Packing group

Environmental hazards Marine pollutant

Yes

EmS

F-A, S-B

Special precautions for user Read safety instructions, SDS and emergency procedures before handling

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Transport in bulk according Not applicable.
To Annex II of MARPOL
73/78 and the IBC Code

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.

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes Delayed Hazard - No Fire Hazard – No Pressure Hazard – No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

US. New Jersey Worker and Community Right-to-Know Act

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

US. Pennsylvania Worker and Community Right-to-Know Law

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

US, Rhode Island RTK

Sodium hydroxide (CAS 1310-73-2) Sodium hypochlorite (CAS 7681-52-9)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

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Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS	S) Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	No Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*} A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

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

Issue date

1-January-2015

Revision date

10-March-2015

Version#

03

Revision History

02-17-15

Section 14

Added information for RQ calculation

03-10-15

Section 14

Added "solution" to name of Marine Pollutant for US DOT transport information

Further information

NFPA Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings



List of abbreviations

LD50: Lethal Dose, 50%.

LC50: Lethal Concentration, 50%. EC50: Effective concentration, 50%. TWA: Time weighted average.

References

EPA: AQUIRE database

HSDB® - Hazardous Substances Data Bank

US. IARC Monographs on Occupational Exposures to Chemical Agents

IARC Monographs. Overall Evaluation of Carcinogenicity

ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices (2009)

Disclaimer

Oltrin Solutions, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in

the sheet was written based on the best knowledge and experience currently available.

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KEEP OUT OF REACH OF CHILDREN

DANGER

TRI-LITE® 150

ACTIVE INGREDIENT:

Sodium Hypochlorite: 12.50% Other Ingredients: 87.50%

Total 100.00%

FIRST AID

IF INHALED:

- · Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN OR CLOTHING:

- · Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 20 minutes.
- Call a poison control center or doctor for further advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently for 15 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes.
- Call a poison control center or doctor for further 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 a doctor.
- Do not give anything by mouth to an unconscious person.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured by: Trinity Manufacturing, Inc.

P.O. Box 1519, Hamlet, NC 28345

EPA Reg. No. 62341-20001

EPA Est. No. 62341-NC-001

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive, may cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses or goggles and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollution 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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the U.S. Environmental Protection Agency.

PHYSICAL AND CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with chemicals (e.g. ammonia, acids, detergents, etc.) or organic matter (e.g. urine, feces, etc.) will release chlorine gas which is irritating to the eyes, lungs and mucous membranes.

STORAGE AND DISPOSAL

Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

IF EMPTY: Do not reuse container. Place in trash or offer for recycling if available.

IF PARTIALLY FILLED: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor

Nonrefillable container. Do not reuse this container to hold materials other than pesticides or dilute pesticides (rinsate). After emptying and cleaning it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Refillable container. Refill this container with Sodium Hypochlorite only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage, as necessary, to obtain the required level of available chlorine.

SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, super chlorinate with 52 to 104 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm.

To maintain the pool, add manually or by a feeder device 11 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits.

Frequency of water treatment will depend upon temperature and number of swimmers.

Every 7 days, or as necessary, super chlorinate the pool with 52 to 104 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Reentry into treated pools is prohibited above levels of 4 ppm chlorine due to risk of bodily injury.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

<u>Winterizing Pools</u>: While water is still clear & clean, apply 3 oz. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturer's instructions.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT TUBS - Apply 5 oz. of product per 1,000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 5 oz. of product per 1,300 gallons of water over the surface to maintain a chlorine concentration of 5 ppm. After each use, shock treat with 8 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 3 oz. of product daily per 1,000 gallons of water to maintain 3 ppm chlorine concentration. Reentry into treated spas is prohibited above levels of 5 ppm chlorine due to risk of bodily injury.

HUBBARD AND IMMERSION TANKS - Add 5 oz. of this product per 200 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use, drain, the tank. Add 5 oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean tank thoroughly and dry with clean cloths.

HYDROTHERAPY TANKS - Add 1 oz. of this product per 1,000 gallons of water to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool should not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

Notice: Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABI-LITY or FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

March 21, 2008

SUBSTANCES - TOXIC AND/OR CORROSIVE П

NON-COMBUSTIBLE)

POTENTIAL HAZARDS

HEALTH

- TOXIC; inhatation, ingestion or skin contact with material may cause severe injury or death.
 - Contact with molten substance may cause severe burns to skin and eyes.
- Avoid any skin contact
- Effects of contact or inhalation may be delayed.
- Fire may produce irritating, corrosive, and for toxic gases.
- Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution.

FIRE OR EXPLOSION

- Non-combustible; substance itself does not burn but may decompose upon healing to produce corrosive and/or toxic fumes.
- Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.).
 - Contact with metals may evolve flammable hydrogen gas.
 - Containers may explode when heated.
- For electric vehicles or equipment, GUIDE 147 (lithium ion batteries) or GUIDE 138 (sodium batteries) should also be consulted.

PUBLIC SAFETY

- CALL EMERGENCY RESONSE Telephone Number on Shipping Paper first. If Shipping Paper not available or no answer, refer to appropriate telephone number listed on the inside back cover.
 - As an immediate precautionary measure, isolate spill or leak area in all directions for at least 50 meters (150 feet) for liquids and at least 25 meters (75 (feet) for solids.
- Keep unauthorized personnel away.
- Stay upwind, uphill, and/or upstream.
 - Ventilate enclosed areas.

PROTECTIVE CLOTHING

- Wear positive pressure self-contained breathing apparatus (SCBA).
- Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide
 - Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not little or no thermal protection.
 - effective in spill situations where direct contact with the substance is possible

EVACUATION

Spill

See Table 1—Initial isolation and Protective Action Distances for highlighted materials. For non-highlighted materials, increase, in the downward direction, as necessary, the isolation distance shown under "PUBLIC SAFETY",

 If tank, rail car, or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation of 800 meters (1/2 mile) in all directions.



required for this product. Please consult the shipping document and/or the In Canada, an Emergency Response Assistance Plan (ERAP) may be ERAP Program Section (page 391).

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SUBSTANCES - TOXIC AND/OR CORROSIVE (NON-COMBUSTIBLE)

GUIDE

EMERGENCY RESPONSE

Small Fire

Dry chemical, CO₂, or water spray.

Large Fire

Dry chemical, CO₂ alcohol-resistant foam, or water spray,

- Move containers from fire area if you can do it without risk
- Dike fire-control water for later disposal; do not scatter the material.

Fire involving Tanks or Car/Trailer Loads

- Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
- Do not get water inside containers.
- Cool Containers with flooding quantities of water until well after fire is out.
- Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

SPILL OR LEAK

- ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area)
- Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Stop leak if you can do it without risk.
- Prevent entry into waterways, sewers, basements, or confined areas.
- Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers.
 - DO NOT GET WATER INSIDE CONTAINERS.

FIRST AID

- Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
- Move victim to fresh air.
- Call 911 or emergency medical service.
- Give artificial respiration if victim is not breathing.
- Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
- Administer oxygen if breathing is difficult.
- Remove and isolate contaminated clothing and shoes.
- In case of contact with substance, immediately flush skin or eyes with running water for at least 20
 - For minor skin contact, avoid spreading material on unaffected skin.
- Keep victim calm and warm.
- Effects of exposure (inhalation, ingestion, or skin contact) to substance may be delayed.

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