

### **Section 01 Identification**

**Product Identifier** TANKHERO All-Purpose Cleaner II

Other Means of Identification Not available

**Product Use and Restrictions** 

on Use

TANKHERO All-Purpose Cleaner is a chlorinated alkaline cleaning agent designed for

moderate soil removal on a wide range of surfaces.

**Initial Supplier Identifier** ClearTech Industries Inc

> 1500 Quebec Avenue Saskatoon, SK. Canada

S7K 1V7

Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca

**Prepared By** ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

### **Section 02 Hazard Identification**

**Physical Hazards** 

Corrosive to metals Category 1

**Health Hazards** 

Skin corrosion / irritation Category 1B Serious eye damage / eye Category 1

irritation

**Environmental Hazards** 

Hazardous to the aquatic environment - acute hazard Category 1

Signal Word

**Danger** 

**Hazard Statements** 

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H400 Very toxic to aquatic life.

#### **Pictograms**



#### **Precautionary Statements**

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#### Prevention

P234 Keep only in original packaging.

P260 Do not breathe vapours, fumes, or mists.

P264 Wash affected body parts thoroughly after handling.

P273 Avoid release to the environment.

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

#### Response

P301 P330 P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 P361 P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or

P363 shower. Wash contaminated clothing before reuse.

P304 P340 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER or doctor.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P390 Absorb spillage to prevent material damage.

P391 Collect spillage.

Storage

P405 Store locked up.

**Disposal** 

P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

#### **Hazards Not Otherwise Classified**

Not available

#### **Supplemental Information**

Not available

### Section 03 Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical name	Common name(s)	CAS number	Concentration (w/w%)
Sodium hydroxide	Caustic soda	1310-73-2	7-13%*
Hypochlorous acid, sodium salt	Sodium hypochlorite	7681-52-9	1-5%*

<sup>\*</sup>Exact concentration withheld as a trade secret.

#### Section 04 First-Aid Measures

#### Description of necessary first-aid measures

Inhalation Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON

CENTER or doctor. If breathing has stopped, trained personnel should begin rescue breathing or if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation

(AED). Avoid mouth to mouth contact by using a barrier device.

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs

naturally, lie on your side, in the recovery position.

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Skin contact Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 60 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use, or discard.

Eye contact Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 60 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

#### Most important symptoms and effects, both acute and delayed

Inhalation Causes severe burns to the mouth and throat (mist).

Ingestion Causes burns to the mouth and throat.

Causes severe skin burns. Skin contact Eye contact Causes serious eye damage.

**Further information** For further information see Section 11 Toxicological Information.

### Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Do NOT use dry chemical fire extinguishing agents containing ammonium compounds (such as some A:B:C agents), since an explosive compound can be formed. Water jets are not recommended in fires involving chemicals.

Specific hazards arising from

the chemical

In the event of a fire oxides of carbon, sulphur, and nitrogen may be released.

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and chemical-protective clothing.

# Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / **Emergency Procedures** 

Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area. Do not breathe vapours, fumes, or mists.

Do not use material handling equipment with exposed metal surfaces.

**Environmental Precautions** 

Do NOT let this chemical enter the environment. Prevent material from entering waterways, sewers or confined spaces. Notify local health and wildlife officials. Notify operators of nearby water intakes.

**Methods and Materials for** Containment and Cleaning Up

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

# **Section 07 Handling and Storage**

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Prevent the release of vapours, fumes, or mists into

> Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.

Never return contaminated material to its original container.

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**Conditions for Safe Storage** 

Store in a cool, dry, well-ventilated area, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when

label and keep it visible. Do not transfer to metal containers.

Incompatibilities

Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

not in use and when empty. Empty containers may contain hazardous residues. Protect

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids and

permanganates.

Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates,

hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid.

Organic material, such as wood, paper, gasoline, diesel, solvents and some glycol based

heat transfer fluids

Metals, such as aluminum, steel, and brass.

# Section 08 Exposure Controls and Personal Protection

#### **Exposure limits**

Component	Regulation	Type of listing	Value
Sodium hydroxide	ACGIH	STEL / Ceiling	2 mg/m³
Chlorine	ACGIH	TWA	0.1 ppm

#### **Engineering controls**

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other An emergency shower and eyewash station should be available, tested, and be in close

proximity to the product being handled in accordance with provincial regulations.

#### Protective equipment

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The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

Eye and face protection Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield

or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended. Contact lenses are not recommended; they may contribute to

severe eye injury.

**Hand and body protection** Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl

rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather

gloves are not recommended for chemical protection. Refer to manufacturer's

specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or

discard.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

NIOSH respirator recommendations for: Chlorine

Up to: 5 ppm

(APF = 10) Any chemical cartridge respirator with cartridge(s) providing protection against

Chlorine

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(APF = 10) Any supplied-air respirator

Up to: 10 ppm

(APF = 25) Any supplied-air respirator operated in a continuous-flow mode

(APF = 25) Any powered, air-purifying respirator with cartridge(s) providing protection against Chlorine

(APF = 50) Any chemical cartridge respirator with a full facepiece and cartridge(s) providing protection against Chlorine

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Chlorine

(APF = 50) Any self-contained breathing apparatus with a full facepiece.

(APF = 50) Any supplied-air respirator with a full facepiece

#### Emergency or planned entry into unknown concentrations or IDLH conditions:

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

#### Escape:

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Chlorine

Any appropriate escape-type, self-contained breathing apparatus

Thermal hazards Not available

# Section 09 Physical and Chemical Properties

#### **Appearance**

Physical state Liquid

Colour Clear, greenish-yellow solution

Odour Chlorine
Odour threshold
Not available

**Property** 

**pH** >13

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Melting point / freezing point Not available Initial boiling point and Not available

boiling range

Not available Flash point Not available Evaporation rate **Flammability** Not applicable Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Negligible Vapour density Not available Relative density Not applicable

**Solubility** Completely soluble in water

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Partition coefficient: n-

octanol/water

Not available

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

1.16-1.17 g/mL @ 20 °C Specific gravity

Particle characteristics Not applicable

### Section 10 Stability and Reactivity

Reactivity May be corrosive to metals. Reacts violently with acids.

This product is stable if stored according to the recommendations in Section 07. Stability

Possibility of hazardous

reactions

Reacts with acids to form hypochlorous acid, a powerful oxidizing agent, which degrades

into toxic chlorine gas. Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials. Do not heat.

Incompatible materials Acids, such as sulphuric, nitric, hydrochloric, phosphoric, flurosilicic (HFSA), sulphonic,

acetic, citric, oxalic, and formic.

Oxidizing agents, such as oxygen, hydrogen peroxide, sulphuric and nitric acids and

permanganates.

Reducing agents, such as hydrogen, sodium borohydride, sulphur dioxide, thiosulphates,

hydrazine, phosphites, carbon, and oxalic, formic and ascorbic acid.

Organic material, such as wood, paper, gasoline, diesel, solvents and some glycol based

heat transfer fluids

Metals, such as aluminum, steel, and brass.

Hazardous decomposition

products

Thermal decomposition may produce oxides of carbon, sulphur, and nitrogen. Chlorine,

sodium chlorate.

### Section 11 Toxicological Information

#### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Acute toxicity estimate	Oral	Rat	>2,000 mg/kg bw	
Chlorine	Inhalation	Mouse	137 ppm	1 hour

#### **Toxic Health Effect Summary**

Chemical characteristics Toxicity caused primarily by high pH and oxidative potential.

Skin Causes severe skin burns.

Ingestion Acute exposure may lead to burning of the mouth and throat, abdominal cramps, nausea, vomiting,

diarrhea, shock. May lead to convulsions, coma, and even death.

Inhalation Causes severe burns to the mouth and throat (mist). Chlorine, one of the primary decomposition

products of sodium hypochlorite, is an irritant of the nose and throat, causing coughing, difficulty

breathing, and pulmonary edema.

Eye contact Causes irritation, redness, and pain. May cause burns and possible damage to vision.

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects.

Carcinogenicity IARC has classified hypochlorite salts as group 3, not classifiable as to its carcinogenicity to humans.

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Reproductive toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Aspiration hazard

Prolonged or repeated overexposure may cause lung damage.

**Synergistic** materials

Not available

### Section 12 Ecological Information

#### **Ecotoxicity**

Component	Type	Species	Value	Exposure Time
Acute toxicity estimate	EC50	Algea	1.15 mg/L	96 hours
	LC50	Aquatic invertabrates	0.72 mg/L	48 hours
	LC50	Fish	0.89 mg/L	72 hours

Biodegradability The domestic substance list categorizes sodium hydroxide as persistent.

Bioaccumulation The domestic substance list categorizes all of the components of this product as non-

bioaccumulative.

This product is water soluble, is not predicted to adsorb to soil and may contaminate ground Mobility

water.

Other adverse effects The domestic substance list categorizes sodium hypochlorite as inherently toxic to aquatic

organisms.

### Section 13 Disposal Considerations

Waste From Residues / **Unused Products** 

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging

Do not remove label, follow label warnings even after the container is empty. Empty containers should be recycled or disposed of at an approved waste handling facility.

## Section 14 Transport Information

**UN** number UN1824

UN proper shipping name

and description

SODIUM HYDROXIDE SOLUTION

Transport hazard class(es) 8 Ш Packing group **Excepted quantities** 1 L

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**Environmental hazards** 

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions No special provisions ERAP index: not required Transport in bulk

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information Secure containers (full or empty) during shipment and ensure all caps, valves, or closures

are secured in the closed position.

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TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

### Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

### **Section 16 Other Information**

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Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

#### Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

#### References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

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