

Section 01 Identification

Genesol 704 **Product Identifier** Other Means of Identification Not available

Product Use and Restrictions Membrane cleaning agent for commercial or industrial use.

on Use

Initial Supplier Identifier ClearTech Industries Inc.

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Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

Section 02 Hazard Identification

Physical Hazards

This product does not qualify for any physical hazard class under WHMIS 2015

Health Hazards

Acute toxicity - oral Category 4 Skin corrosion / irritation Category 1A Serious eye damage / eye Category 1

irritation

Signal Word

Danger

Hazard Statements

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

Pictograms



Precautionary Statements

Prevention

P260 Do not breathe dust.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023

Page 1 of 7

P264 Wash affected body parts thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

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

Response

P301 P312 P330 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor if P331 you feel unwell.

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.

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	2.5-10%*
Glycine, N,N'-1,2-ethanediylbis[N-(carboxymethyl)-, tetrasodium salt	EDTA 4Na	64-02-8	2.5-10%*
Carbonic acid disodium salt, compd. with hydrogen peroxide (H2O2) (2:3)	Sodium percarbonate	15630-89-4	2.5-10%*

^{*}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.

Skin 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.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023 Page 2 of 7

Page 3 of 7

Safety Data Sheet

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.

Ingestion Causes burns to the mouth and throat. Harmful if swallowed.

Skin contact Causes severe skin burns. 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

Water jets are not recommended in fires involving chemicals.

media

Specific hazards arising from In the event of a fire oxides of carbon, nitrogen and phosphorous may be released. the chemical

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

for fire-fighters

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 dust.

Environmental Precautions

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 Dry sweeping is not recommended. Pre-damping the material or use of a vacuum is

Up

preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

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 dust into the workplace air. 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.

Conditions for Safe Storage

Revision Date: October 20, 2023

Store in a cool, dry area, away from heat sources and incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible.

Incompatibilities

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,

hypochlorites and permanganates. Aluminum, zinc and ammonium salts

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Section 08 Exposure Controls and Personal Protection

Exposure limits

Component	Regulation	Type of listing	Value
Sodium Hydroxide	ACGIH	TLV-Ceiling	2 mg/m³
	OSHA	PEL-Ceiling	2 mg/m³
	NIOSH	IDLH	10 mg/m ³

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

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.

Thermal hazards Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Powder Colour White Odour Odourless **Odour threshold** Not available

Property

pН 11.5-12.5 @ 1%

Melting point / freezing point 0°C

Initial boiling point and

boiling range

Not available

Flash point Not applicable

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023

Page 4 of 7

Evaporation rate Not available **Flammability** Not available Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not applicable Vapour density Not available Relative density 1.1-1.3 g/cm³ Solubility Soluble in water Partition coefficient: n-Not available

octanol/water

Auto-ignition temperature Not applicable **Decomposition temperature** Not available **Viscosity** Not applicable Specific gravity Not applicable

Particle characteristics Particle size: Not available

Particle shape: Not available

Section 10 Stability and Reactivity

Reactivity Reacts violently with acids.

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

Possibility of hazardous

reactions

Not available

Avoid contact with incompatible materials. Conditions to avoid

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,

hypochlorites and permanganates. Aluminum, zinc and ammonium salts

Hazardous decomposition

products

Thermal decomposition may produce oxides of carbon, nitrogen and phosphorous. Not

available

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

There is no available toxicity data for this product.

Toxic Health Effect Summary

Chemical Not available

characteristics

Skin Causes severe skin burns.

Causes burns to the mouth and throat. Harmful if swallowed. Ingestion

Causes severe burns to the mouth and throat. Inhalation

Eye contact Causes serious eye damage.

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.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023

Page 5 of 7

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

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 Synergistic materials

Not available Not available

Section 12 Ecological Information

Ecotoxicity

there is no available toxicity data for this product.

Biodegradability The domestic substance list categorizes sodium hydroxide and sodium percarbonate as

persistent.

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

bioaccumulative.

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

water.

Other adverse effects Not available

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 UN3262

UN proper shipping name

and description

CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

(Sodium hydroxide)

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

Environmental hazards

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

Special precautions No special precautions Transport in bulk ERAP index: not available

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.

Special Provisions:

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023 Page 6 of 7

16 (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks).

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

Date of latest revision: October 20, 2023

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) NIOSH Pocket Guide to Chemical Hazards; U.S. Department of Health and Human Services, https://www.cdc.gov/niosh/npg/default.html
- 2) WorkSafe BC E-Limit: Workers' Compensation Foard of British Columbia, https://elimit.online.worksafebc.com/
- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/information-onchemicals/registered-substances
- 4) Transportation of Dangerous Goods Regulations; Transport Canada, https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Seventh revised edition
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007
- 7) The ACS Style Guide

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: October 20, 2023