



Safety Data Sheet

Pro Laundry Neutralizer

1. IDENTIFICATION

Product Identifier: Pro Laundry Neutralizer

Canadian TDG: UN3265

Synonyms: None

Chemical Family: Not known

Recommended Use: Laundry additive

Restrictions on Use: None

Manufacturer / Supplier:

Genesis Chemicals

602 – 13th St SE

Medicine Hat, AB

T1A 1X3

Prepared by: The Environmental, Health and Safety Department of Genesis Chemicals Ltd

Preparation Date of SDS: February 15, 2017

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2. HAZARDS IDENTIFICATION

GHS Classification

Serious eye irritation – Category 1; Mixtures corrosive to metals – Category 1; Skin Corrosion – Category 1A; Acute toxicity, oral – Category 3



Signal Word: Danger

Hazard Statement(s):

Causes serious eye damage.

May be corrosive to metals.

Causes severe skin burns and eye damage.

Toxic if swallowed.

Precautionary Statement(s):

General:

Keep out of reach of children.

Read label before use.

Prevention:

Wash hands, face and any exposed skin thoroughly after handling.
Wear protective gloves/ protective clothing/ eye protection/ face protection.
Keep only in original container.
Absorb spillage to prevent material damage.
Do not breathe dust/ fumes/ gas/ mist/ vapours/ spray.
Do not eat drink or smoke when using this product.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Call a poison center or doctor/physician if you feel unwell. Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.

Storage:

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

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

Other Hazards:

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

Chemical Name	CAS No.	Concentration %
Citric acid	77-92-9	15-40
Hydroxyacetic Acid	79-14-1	1-5

Notes

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First-aid Measures

General

Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Call a Poison Centre or doctor immediately.

Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately rinse with lukewarm, gently flowing water for 15-20 minutes. If skin irritation or a rash occurs, get medical advice/attention. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Take care not to rinse contaminated water into the unaffected eye or onto the face. Remove contact lenses, if present and easy to do. If eye irritation persists, get medical advice/attention.

Ingestion

Immediately call a Poison Centre or doctor. Do not induce vomiting.

Most Important Symptoms and Effects, Acute and Delayed

Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.

Immediate Medical Attention and Special Treatment**Special Instructions**

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Extinguishing Media**Suitable Extinguishing Media**

Carbon dioxide, appropriate dry chemical powder or water spray.

Unsuitable Extinguishing Media

High volume water jet.

Specific Hazards Arising from the Chemical

May form explosive dust-air mixtures. Keep containers cool to prevent rupture and release of material.

Special Protective Equipment and Precautions for Fire-fighters

Evacuate area. Approach fire from upwind to avoid hazardous vapours or gases. Stop leak before attempting to put out the fire. Before entry, especially into confined areas, use an appropriate monitor to check for: toxic gases or vapours, flammable or explosive atmosphere. Dike and recover contaminated water for appropriate disposal. Fire-fighters may enter the area if positive pressure SCBA and full Bunker Gear is worn. If there is potential for skin contact with concentrated cleaner: chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary. See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Concentrated product: evacuate the area immediately. Isolate the hazard area. Keep out unnecessary and unprotected personnel. Eliminate all ignition sources. Use grounded, explosion-proof equipment. Distant ignition and flashback are possible.

Increase ventilation to area or move leaking container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Review Section 7 (Handling) of this safety data sheet before proceeding with clean-up.

Before entry, especially into confined areas, check atmosphere with an appropriate monitor. Monitor area for flammable

or explosive atmosphere.

Product (diluted as directed): use the personal protective equipment recommended in Section 8 of this safety data sheet. No other special precautions are necessary.

Environmental Precautions

Concentrated product: do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

Methods and Materials for Containment and Cleaning Up

Isolate hazard area and restrict access. Scoop up or vacuum up and place in an appropriate closed container.

Other Information

Report spills to local health, safety and environmental authorities, as required.

7. HANDLING AND STORAGE

Precautions for Safe Handling

When handling diluted product: no special handling precautions are necessary.

When handling concentrated product: only use where there is adequate ventilation. Avoid generating vapours or mists. Keep containers tightly closed when not in use or empty. Wear personal protective equipment to avoid direct contact with this chemical.

Do NOT smoke in work areas. Wash hands thoroughly after handling this material. Immediately remove contaminated clothing using the method that minimizes exposure. Keep contaminated clothing under water, in closed containers. Launder clothes before rewearing. Inform laundry personnel of product hazard(s). Do not take contaminated clothing home.

Conditions for Safe Storage

Concentrated product: store in an area that is: temperature-controlled, well-ventilated, out of direct sunlight and separate from incompatible materials (see Section 10: Stability and Reactivity). Store in a closed container. Protect from conditions listed in Conditions to Avoid in Section 10 (Stability and Reactivity). Keep amount in storage to a minimum. Comply with all applicable health and safety regulations, fire and building codes.

Materials to Avoid

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Occupational exposure limits

Chemical Name	ACGIH® TLA®	OSHA PEL (Ceiling)	IDLH
Citric Acid	Not available	Not available	Not available
Hydroxyacetic Acid	Not available	Not available	Not available

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls

General ventilation is usually adequate. Provide eyewash and safety shower if contact or splash hazard exists.

When handling large quantities of concentrated product: use a local exhaust ventilation and enclosure, if necessary, to control amount in the air. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Individual Protection Measures

Eye/Face Protection

Do not get in eyes. Wear chemical eye protection/ face protection.

Skin Protection

Prevent all skin contact. Wear chemical protective clothing e.g. gloves, aprons, boots.

Suitable materials are: Barrier® (PE/PA/PE), Silver Shield/4H® (PE/EVAL/PE), Tychem® Responder, Tychem® TK.

The following materials should NOT be used: neoprene rubber, nitrile rubber, polyvinyl alcohol.

Respiratory Protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator.

Concentrated product: wear a NIOSH approved air-purifying respirator with an organic vapour cartridge.

For non-routine or emergency situations: wear a NIOSH approved air-purifying respirator with an organic vapour Cartridge, or, wear a NIOSH approved self-contained breathing apparatus (SCBA) or supplied air respirator.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

9. CHEMICAL AND PHYSICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Blue-green liquid
Odor	Odorless
Odor Threshold	Not available
pH	<2
Melting Point/Freezing Point	Not available
Initial Boiling Point/Range	Not available
Flash Point	None
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable (liquid)
Upper/Lower Flammability or Vapour Pressure	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (specific gravity)	1.1 – 1.2 g/mL
Solubility (water)	Completely soluble
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Physical State:	Liquid

10. STABILITY AND REACTIVITY

Reactivity

Not normally reactive. Aqueous solutions may react with some metals (e.g. Aluminum, zinc, tin and their alloys) to release flammable hydrogen gas.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

Conditions to Avoid

Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials. Avoid dust formation.

Incompatible Materials

Reacts with active metals (like sodium), oxidizing agents (such as strong nitric acid), cyanide salts, or sulfide salts to produce hydrogen, oxides of nitrogen, hydrogen cyanide, or hydrogen sulfide gases, respectively.

Hazardous Decomposition Products

None known, refer to hazardous combustion products in Section 5

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; eye contact; ingestion.

Information on toxicological effects

Acute toxicity

Harmful if swallowed.

Skin Corrosion/Irritation

May cause mild skin irritation on prolonged contact.

Serious Eye Damage/Irritation

Causes serious eye damage. Symptoms may include a burning sensation, pain, watering, and/or changes in vision (blurred vision).

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

The substance or mixture is not classified as specific target organ toxicant, single exposure.

Aspiration Hazard

No data available.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No data available.

Respiratory and/or Skin Sensitization

No data available.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive Toxicity**Development of Offspring**

This product is not expected to cause developmental effects.

Sexual Function and Fertility

This product is not expected to cause reproductive effects.

Germ Cell Mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Interactive Effects

No information was located.

Chronic Effects

Prolonged inhalation may be harmful.

Additional Information

No data.

Components Species Test Results

Chemical Name	LC50 (inhalation)	LD50
Citric acid	Not available	LD50 rat Oral = 3000 mg/kg LD50 rabbit Dermal > 2000 mg/kg (no mortality)
Hydroxyacetic Acid	Not Available	Not Available

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Chemical Name	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Citric Acid	LC50/96h/goldfish : 440-706 mg/l	Not Available.	Not Available.
Hydroxyacetic Acid	Not Available	Not Available	Not Available

Other Information: The product may affect the acidity (pH-factor) in water with risk of harmful effects to aquatic organisms.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Recommended disposal methods are for the product, as sold. (Used material may contain other hazardous contaminants). The required hazard evaluation of the waste and compliance with the applicable hazardous waste laws are the responsibility of the user.

Burn in an approved incinerator according to federal, provincial/state, and local regulations.

Empty containers retain product residue. Follow label warnings even if container appears to be empty. The container for this product can present explosion or fire hazards, even when emptied. Do not cut, puncture, or weld on or near this container.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

DOT Hazardous Class: 8

DOT UN Number: UN3265

DOT Packing Group: III

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

Hazard Class: 8

UN Number: UN3265

Packing Group: III

Note: No additional remark.

Marine Pollutant: No.

Special Precautions for User

Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

Canada

WHMIS Classification

E CORROSIVE MATERIAL

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

CEPA - National Pollutant Release Inventory (NPRI)

16. OTHER INFORMATION

- Additional Information:** This product has been classified in accordance with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) and the SDS contains all the information required by the Hazardous Products Regulations (HPR).
- Prepared by:** The Environmental, Health and Safety Department of Genesis Chemicals Ltd
- Telephone No. of Preparer:** 403-528-4220
- Date of Latest Revision:** February 15, 2017
- Key to Abbreviations:** IARC = International Agency for Research on Cancer. Group 3 = Not classifiable as to its carcinogenicity to humans. ACGIH® = American Conference of Governmental Industrial Hygienists. A4 = Not classifiable as a human carcinogen. NTP = National Toxicology Program. OSHA = US Occupational Safety and Health Administration. ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. STEL = Short-term Exposure Limit. A4 = Not classifiable as a human carcinogen. OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. IDLH = Immediately Dangerous to Life and Health.
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*****END OF SDS*****