

Safety Data Sheet

Pro Laundry Break

1. IDENTIFICATION

Product Identifier: Pro Laundry Break

Canadian TDG: UN1760

Synonyms: None

Chemical Family: Not known

Recommended Use: Laundry additive Restrictions on Use: Not known

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 14, 2017 Telephone number of preparer: 403-528-4220

24-Hour Emergency Telephone Number (CANUTEC): (613) 996-6666

2. HAZARDS IDENTIFICATION

GHS Classification

Corrosive to metals – Category 1; Skin Corrosion – Category 1A; Serious Eye Damage – Category 1; Acute toxicity – Category 3





Signal Word: Danger

Hazard Statements(s):

May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage
Toxic if swallowed

Precautionary Statement(s):

General:

Keep out of reach of children.

Read label before use.

Prevention:

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.

Wash hands, face and any exposed skin thoroughly after handling.

Do not eat drink or smoke when using this product.

Response:

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.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so.

Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Immediately call a poison center or doctor/physician.

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

| Chemical Name | CAS No. | Concentration % |
|---------------------|-----------|-----------------|
| Sodium Hydroxide | 1310-73-2 | 10-30 |
| Potassium Hydroxide | 1310-58-3 | 5-10 |

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.

*There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section

4. FIRST AID MEASURES

First-aid Measures

Inhalation

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

unwell or are concerned.

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

If inhaled: at high concentrations symptoms may include headache, nausea, dizziness, drowsiness and confusion.

If on skin: causes severe skin damage. Symptoms include burns, blisters, redness, rash, itching and swelling.

If in eyes: causes severe eye damage. Symptoms include sore, red eyes, tearing, and blindness.

If swallowed: may be drawn into the lungs if swallowed or vomited, causing severe lung damage. Symptoms may include coughing, shortness of breath, difficult breathing and tightness in the chest.

Immediate Medical Attention and Special Treatment Special Instructions

Not applicable.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Water fog, carbon dioxide, dry chemical powder or appropriate foam.

Unsuitable Extinguishing Media

Water jet.

Specific Hazards Arising from the Chemical

Not flammable or combustible. However, sodium hydroxide fumes can be generated by thermal decomposition at elevated temperatures

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. Product could form an explosive mixture and reignite. Keep containers cool to avoid bursting.

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

Concentrated product: small spills or leaks: contain and soak up spill with absorbent that does not react with spilled product. Do NOT use combustible materials such as sawdust. Place used absorbent into suitable, covered, labelled containers for disposal.

Concentrated product: large spills or leaks: cover the spill surface with the appropriate type of foam to reduce the release of vapour. Dike spilled product to prevent runoff. Remove or recover liquid using pumps or vacuum equipment. Dike and recover contaminated water for appropriate disposal. Store recovered product in suitable containers that are: tightly-covered.

Product (diluted as directed): no special clean-up methods are necessary.

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 away from heat and ignition sources, an approved, fire-resistant area, 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. Avoid bulk storage indoors.

Comply with all applicable health and safety regulations, fire and building codes.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Ingredients | ACGIH® TLV® | OSHA PEL | IDLH |
|---------------------|-----------------|-----------------|---------------|
| Sodium Hydroxide | 2 mg/m₃ Ceiling | 2 mg/m₃ Ceiling | 10 mg/m₃ |
| Potassium Hydroxide | 2 mg/m₃ Ceiling | 2 mg/m₃ Ceiling | Not available |

Consult local authorities for provincial or state exposure limits.

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 safety goggles.

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

Not normally required if product is used as directed.

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 Clear to opaque liquid

Odour Odorless
Odour Threshold Not available
pH >13.0
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 orNot available (upper); Not available (lower)

Explosive Limit

Vapour Pressure

Vapour Density (air = 1)

Relative Density (specific gravity

Solubility

Partition Coefficient,

Not explosive

Not available

1.35 – 1.45

Soluble in water

Not available

n-Octanol/Water (Log Kow)

Auto-ignition TemperatureNot availableDecomposition TemperatureNot availableViscosityNot available

Other Information

Physical State: Liquid

10. STABILITY AND REACTIVITY

Reactivity

Soluble in water, releasing heat sufficient to ignite combustibles. Reacts with metals, and may form hydrogen gas.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Mixing with water, acid, or incompatible materials may cause splattering and release of large amounts of heat. Will react with some metals forming flammable hydrogen gas. Carbon monoxide gas may form upon contact with reducing sugars, food and beverage products in enclosed spaces.

Conditions to Avoid

Excessive heat, open flames and all ignition sources. Incompatible materials.

Incompatible Materials

Acids and halogenated compounds. Prolonged contact with aluminum, brass, bronze, copper, lead, tin, zinc or other alkali sensitive metals or alloys. Releases heat when diluted in water.

Hazardous Decomposition Products

Toxic fumes of sodium oxide.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

| Chemical Name | LC50 | LD50 (oral) | LD50 (dermal) |
|---------------------|---------------|----------------------------------|---------------------|
| Sodium Hydroxide | Not available | Rabbit = 500 mg/kg | Rabbit = 1350 mg/kg |
| Potassium Hydroxide | Not available | Rat = 214 mg/kg Rat 273 mg/kg | Not available |

Acute Toxicity Estimates (ARE)

Acute Oral Toxicity: Acute toxicity estimate > 5000 mg/kg

Acute Inhalation Toxicity: No data available

Acute Dermal Toxicity: Acute toxicity estimate > 5000 mg/kg

Skin Corrosion/Irritation

May cause mild irritation based on information for closely related chemicals.

Serious Eye Damage/Irritation

No data available

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

Category 1 - Respiratory System, Gastrointestinal System

Aspiration Hazard

No data available

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No data available

Respiratory and/or Skin Sensitization

No data available

Carcinogenicity

| Chemical Name | IARC | ACGIH | NTP | OSHA |
|---------------------|------------|------------|------------|------------|
| Sodium Hydroxide | Not Listed | Not Listed | Not Listed | Not Listed |
| Potassium Hydroxide | Not Listed | Not Listed | Not Listed | Not Listed |

Reproductive Toxicity

Development of Offspring

No data available

Sexual Function and Fertility

No data available

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

Additional Information:

No information was located.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

| Ingredients | Ecotoxicity - Fish Species Data | Acute Crustaceans Toxicity: | Ecotoxicity - Freshwater Algae Data |
|---------------------|--|-----------------------------|--|
| Sodium Hydroxide | LC50 (Rainbow Trout) 1149 mg/l LC50 (Chinook Salmon) 152 mg/l | Not available | Not available |
| Potassium Hydroxide | 80 mg/L LC50 (Gambusia affinis) 96 h static | Not Available | Not Available |

Other Information:

Do not allow product or runoff from fire control to enter storm or sanitary sewers, lakes, rivers, streams or public waterways. Block off drains and ditches. Spill areas must be cleaned and restored to original condition or to the satisfaction of authorities. May be harmful to aquatic life. Biodegrades (slow). Rapid volatilization. Not expected to bioconcentrate.

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 liquids, n.o.s. (SODIUM HYDROXIDE, SOLUTION)

DOT Hazardous Class 8 DOT UN Number: UN1760 DOT Packing Group: II

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: Corrosive liquids, n.o.s. (SODIUM HYDROXIDE, SOLUTION)

Hazard Class: 8 UN Number: UN1760 Packing Group: ||

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 D2B TOXIC MATERIALS

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 ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

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

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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.

Disclaimer:

NOTICE TO READER:

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Genesis Chemicals Sales Office.

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END OF SDS