



## Safety Data Sheet

### Powerhouse LD Laundry Detergent

#### 1. IDENTIFICATION

**Product Identifier:** Powerhouse LD

**Canadian TDG:** Not regulated

**Synonyms:** None

**Chemical Family:** Non known

**Recommended Use:** Laundry

**Restrictions on Use:** None

**Manufacturer / Supplier:**

Genesis Chemicals

602 – 13<sup>th</sup> St SE

Medicine Hat, AB

T1A 1X3

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

**Preparation Date of SDS:** September 6, 2017

**Telephone number of preparer:** 403-528-4220

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

#### 2. HAZARDS IDENTIFICATION

**GHS Classification**

Acute toxicity (Inhalation) – Category 4; Skin irritation – Category 2; Eye irritation – Category 2A



**Signal Word:** Warning

**Hazard Statement(s):**

Harmful if inhaled.

Causes skin irritation.

Causes serious eye irritation.

**Precautionary Statement(s):**

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wear protective gloves/ protective clothing/ eye protection/ face protection.  
Use only outdoors or in a well-ventilated area.

**Response:**

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 ON SKIN: Wash with plenty of soap and water.

If skin irritation occurs: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Disposal:**

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

**Other Hazards:**

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Mixture**

| Chemical Name                   | CAS No.    | Concentration % |
|---------------------------------|------------|-----------------|
| Sodium Carbonate                | 497-19-8   | 30 - 60         |
| Sodium Nitrilotriacetate        | 18662-53-8 | 5 – 20          |
| Disodium Metasilicate           | 6834-92-0  | 5 – 20          |
| Sodium Tripolyphosphate         | 7758-29-4  | 1-10            |
| Ethylene Glycol Monobutyl Ether | 111-76-2   | <5              |

*\*Remaining portion is composed of non-regulated components*

**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 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**

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, dry chemical powder, appropriate or water spray.

#### **Unsuitable Extinguishing Media**

High volume water jet.

### **Specific Hazards Arising from the Chemical**

Do not allow run-off from fire fighting to enter drains or water courses.

### **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

Scoop up or vacuum up and place in an appropriate closed container. Use vacuum suction with HEPA filters to clean up spilled material. Avoid raising dust. Flush area with water to remove trace residue.

### 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

| Ingredients                        | ACGIH® TLV®                    | OSHA PEL                               | IDLH           |
|------------------------------------|--------------------------------|--|----------------|
| Sodium Carbonate                   | Not available.                 | 15 mg/m <sup>3</sup>                   | Not available. |
| Sodium Nitrilotriacetate           | Not available.                 | Not available.                         | Not available. |
| Disodium Metasilicate              | 2 mg/m <sup>3</sup>            | 2 mg/m <sup>3</sup>                    | Not available. |
| Sodium Tripolyphosphate            | Not available.                 | Not available.                         | Not available. |
| Ethylene Glycol<br>Monobutyl Ether | 20 ppm (97 mg/m <sup>3</sup> ) | 50 ppm (240 mg/m <sup>3</sup> ), skin, | 700 ppm        |

### 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 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                                       | White powder                       |
| Odour  | Clean Pine                         |
| Odour Threshold                                  | Not available                      |
| pH   | 11.5-12.5 (1% w/w solution) @ 20°C |
| Melting Point/Freezing Point                     | Not available                      |
| Initial Boiling Point/Range                      | Not applicable                     |
| Flash Point                                      | Not applicable                     |
| Evaporation Rate                                 | Not applicable                     |
| Flammability (solid, gas)                        | Not determined                     |
| Upper/Lower Flammability or Explosive Limit      | Not applicable                     |
| Vapour Pressure                                  | Not determined                     |
| Vapour Density (air = 1)                         | Not applicable                     |
| Relative Density (water = 1)                     | Not available                      |
| Solubility                                       | Not available                      |
| Partition Coefficient, n-Octanol/Water (Log Kow) | Not available                      |
| Auto-ignition Temperature                        | Not available                      |
| Decomposition Temperature                        | Not available                      |
| Viscosity  | Not applicable                     |
| Other Information                                | None available                     |
| Physical State:                                  | Solid                              |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive. Not sensitive to mechanical impact.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

None expected under normal conditions of storage and use.

### Conditions to Avoid

Hygroscopic (absorbs moisture from the air). Simultaneous exposure to soda ash and lime dusts (CaO). In the presence of moisture (i.e. perspiration) the two materials combine to form corrosive caustic soda (NaOH) which may cause burns.

### Incompatible Materials

Acids. Soda Ash is corrosive to aluminum, lead, and zinc and zinc brasses when in solution and to aluminum when high humidity is present.

### Hazardous Decomposition Products

Carbon dioxide. Decomposition temperature: 400°C / 752 °F.

### Additional Information

Contact with acids will release carbon dioxide gas. Can react violently with red hot aluminum metal; fluorine gas; lithium; and 2,4,6-trinitrotoluene.

## 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Inhalation; skin contact; eye contact; ingestion.

| Chemical Name                   | LD50s and LC50s Route & Species  |
|---------------------------------|--|
| Sodium Carbonate                | Dermal LD50 Mouse = 2210 mg/kg<br>Inhalation LC50 Rat = 2300 mg/m <sup>3</sup> 2 h<br>Oral LD50 Rat = 4090 mg/kg |
| Sodium Nitritotriacetate        | Oral LD50 (Rat) = 1540 mg/kg<br>Dermal LD50 (Rabbit) > 4060 mg/kg  |
| Disodium Metasilicate           | RTEC Oral LD50 Rat : 1153 mg/kg<br>Oral LD50 Mouse : 770 mg/kg   |
| Sodium Tripolyphosphate         | Oral LD50 (Rat) = 3100 mg/kg<br>Dermal LD50 (Rabbit) > 7940 mg/kg  |
| Ethylene Glycol Monobutyl Ether | Oral LD50 (Mouse) 1167 mg/kg<br>Oral LD50 (Mouse) 1230 mg/kg   |

### Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

**Additional Information:** Excessive contact may produce "soda ulcers" on hands and perforation of the nasal septum. Sensitivity reactions may occur from prolonged and repeated exposure.

**Acute Test of Product:**

**Acute Oral LD50:** Not Available.

**Acute Dermal LD50:** Not Available.

**Acute Inhalation LC50:** Not Available.

**Skin Corrosion/Irritation**

Cause skin irritation.

**Serious Eye Damage/Irritation**

Causes serious eye irritation.

**STOT (Specific Target Organ Toxicity) - Single Exposure  
Inhalation**

No data available.

**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.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicological Information:

| Ingredients                     | Ecotoxicity - Fish Species Data   | Acute Crustaceans Toxicity: | Ecotoxicity - Freshwater Algae Data   |
|---------------------------------|---|-----------------------------|---|
| Sodium Carbonate                | 310 - 1220 mg/L LC50 (Pimephales promelas) 96 h static<br>300 mg/L LC50 (Lepomis macrochirus) 96 h static | Not Available.              | EC50 (Nitzschia) 242 mg/L<br>LC50 (Daphnia Magna) 347 mg/L (24hr)<br>LC50 (Daphnia Magna) 565 mg/L (96hr) |
| Sodium Nitrilotriacetate        | 210 mg/L LC50 (Brachydanio rerio) 96 h<br>210 mg/L LC50 (Brachydanio rerio) 96 h semi                     | Not Available.              | Not Available.  |
| Disodium Metasilicate           | Not Available.  | Not Available.              | Not Available.  |
| Sodium Tripolyphosphate         | LC50 (Leuciscus idus) 1650 mg/L   | Not Available.              | Not Available.  |
| Ethylene Glycol Monobutyl Ether | 1490 mg/L LC50 (Lepomis macrochirus) 96 h static<br>2950 mg/L LC50 (Lepomis macrochirus) 96 h             | Not Available.              | Not Available.  |

### Other Information:

No additional remarks.

## 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:** Not Regulated.

**DOT Hazardous Class:** Not Applicable.

**DOT UN Number:** Not Applicable.

**DOT Packing Group:** Not Applicable.

**DOT Reportable Quantity (lbs):** Not Available.



**Marine Pollutant:** No.

**TDG (Canada):**

**TDG Shipping Name:** Not Regulated.

**Hazard Class:** Not Applicable.

**UN Number:** Not Applicable.

**Packing Group:** Not Applicable.

**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**

D2B - Toxic materials

E - Corrosive

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

**Date of Latest Revision:** September 6, 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\*\*\***