



## Safety Data Sheet

### Vibrant

#### 1. IDENTIFICATION

**Product Identifier:** Vibrant Powdered Laundry Detergent

**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:** February 8, 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 Sulphate	7757-82-6	<20
Disodium Metasilicate	6834-92-0	<20
Alcohols, C9-11, ethoxylated	68439-46-3	1 - 5
Sodium Dodecyl Benzene Sulphonate	25155-30-0	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 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**

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.

#### **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 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	-	15 mg/m <sup>3</sup>	-
Sodium Sulphate	-	-	-
Sodium Metasilicate	2 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	-
Alcohols, C9-11, ethoxylated	-	-	-
Sodium Dodecyl Benzene Sulphonate	-	-	-

#### 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	Odorless
Odour Threshold	Not available
pH	10.5 – 12.5 (1% w/w solution)
Melting Point/Freezing Point	Not applicable
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 applicable
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	Not available
Solubility	11% w/w @ 20 °C
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	LC50 (inhalation)	LD50 (oral)	LD50 (dermal)
Sodium Carbonate	Rat = 2300 mg/m <sup>3</sup> 2 h	Rat = 4090 mg/kg	Mouse = 2210 mg/kg
Sodium Sulphate	Rat > 10000 mg/kg	-	-
Sodium Metasilicate	-	Rat : 1153 mg/kg Oral Mouse : 770 mg/kg	-
Alcohols, C9-11, ethoxylated	-	Rat: 500 - 5000 mg/kg	Rabbit: 2000 - 20000 mg/kg
Sodium Dodecyl Benzene Sulphonate	-	Rat: 438 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:**

<b>Ingredients</b>	<b>Ecotoxicity - Fish Species Data</b>	<b>Acute Crustaceans Toxicity:</b>	<b>Ecotoxicity - Freshwater Algae Data</b>
Sodium Carbonate	310 - 1220 mg/L LC50 (Pimephales promelas) 96 h static 300 mg/L LC50 (Lepomis macrochirus) 96 h static	-	EC50 (Nitzschia) 242 mg/L LC50 (Daphnia Magna) 347 mg/L (24hr) LC50 (Daphnia Magna) 565 mg/L (96hr)
Sodium Sulphate	-	-	Pimephales promelas: LC50: 13.5 - 14.5 g/L/96h

Sodium Metasilicate	210 mg/L LC50 (Brachydanio rerio) 96 h 210 mg/L LC50 (Brachydanio rerio) 96 h semi	216 mg/L: 96 h Daphnia magna EC50	-
Alcohols, C9-11, ethoxylated	5-10 mg/L LC50 96 h	5-10 mg/L EC50 48 h	10-100 mg/L EC50 72 h
Sodium Dodecyl Benzene Sulphonate	-	-	-

**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

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

<b>Additional Information:</b>	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).
<b>Prepared by:</b>	The Environmental, Health and Safety Department of Genesis Chemicals Ltd
<b>Date of Latest Revision:</b>	February 8, 2017
<b>Key to Abbreviations:</b>	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\*\*\***