**Safety Data Sheet**

# Pro Klenz 100

## 1. IDENTIFICATION

**Product Identifier:** Pro Klenz 100
**Canadian TDG:** UN3266
**Chemical Family:** Not known
**Recommended Use:** Not known
**Restrictions on Use:** Not known

**Manufacturer / Supplier:**
Genesis Chemicals
1451 Highway Ave SE
Redcliff, AB
T0J 2P0

**Prepared by:** The Environmental, Health and Safety Department of Genesis Chemicals Ltd
**Preparation Date of SDS:** February 16, 2022
**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 1B; Serious Eye Damage – Category 1

**Signal Word:** Danger

**Hazard Statements(s):**
May be corrosive to metals
Causes severe skin burns and eye damage
Causes serious eye damage
Causes damage to organs

**Precautionary Statement(s):**
General:
Keep out of reach of children.
Read label before use.

Prevention:
Wear protective gloves, protective clothing, eye protection and face protection.
Keep only in original container.

Absorb spillage to prevent material damage.
Do not breathe dust, fumes, gas, mist, vapours or spray.
Wash face, hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid release to the environment.

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.
Remove/Take off immediately all contaminated clothing.
Wash contaminated clothing before reuse.
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. Continue rinsing.
If exposed: Call a poison center or doctor/physician immediately.

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 | 30-60 |

**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**
**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/m$_3$ Ceiling | 2 mg/m$_3$ Ceiling | 10 mg/m$_3$ |

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 |
| **Odour** | Odorless |
| **Odour Threshold** | Not available |
| **pH** | >13.5 |
| **Melting Point/Freezing Point** | -27°C |
| **Initial Boiling Point/Range** | Not available |
| **Flash Point** | None |
| **Evaporation Rate** | Not available |
| **Flammability (solid, gas)** | Not applicable (liquid). |
| **Upper/Lower Flammability or** | Not available (upper); Not available (lower) |
| **Explosive Limit** | Not explosive |
| **Vapour Pressure** | Not available |
| **Vapour Density (air = 1)** | Not available |
| **Relative Density (specific gravity)** | 1.40-1.50 |
| **Solubility** | Soluble in water |
| **Partition Coefficient, n-Octanol/Water (Log Kow)** | Not available |
| **Auto-ignition Temperature** | Not available |
| **Decomposition Temperature** | Not available |
| **Viscosity** | Not 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 |

**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 |

**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 |

**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 LIQUID, BASIC, INORGANIC, N.O.S (Sodium Hydroxide)
**DOT Hazardous Class** 8
**DOT UN Number:** UN3266
**DOT Packing Group:** II
**DOT Reportable Quantity (lbs):** Not Available.
**Note:** No additional remark.
**Marine Pollutant:** No.

**TDG (Canada):**
**TDG Shipping Name:** CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S (Sodium Hydroxide)
**Hazard Class:** 8
**UN Number:** UN3266
**Packing Group:** II
**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 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

**Date of Latest Revision:** February 16, 2022

**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*****