SAFETY DATA SHEET

This Safety Data Sheet meets or exceeds the requirements of the Canadian Controlled Product Regulations (WHMIS)

1. Identification

- **Product Name:** **Duradek Deck Cleaner**
- **Product Identifier:** All purpose cleaner
- **Recommended use:** Household Cleaning, Consumer Products
- **Restrictions on use:** Not Known
- **Supplier Details:** **Duradek Canada LTD.**
  8288 - 129 Street,
  Surrey BC V3W 0A6
- **Emergency telephone number and any restrictions on the use of that number, if applicable**: ..... Canada - CANUTEC (24H) 1-613-996-6666
  ..... US – CHEMTRAC (24H) 1-800-424-9300

2. Hazard Identification

- **GHS Classification:**
  - **Classification of the Substance or Mixture:**
    Skin Corrosion/Irritation: Category 2
    Serious Eye Damage/Eye Irritation: Category 2
- **GHS Label Elements:**
  - **Symbol (image) or the name of the symbol :** Corrosive Liquid

  - **Signal word** Warning
  - **Hazard Statement(s)**
    Acute Effects:
    Causes skin irritation
    Causes eye irritation
  - **Precautionary Statement(s):**

Prevention:
Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves / protective clothing / eye protection / face protection

Response:
IF IN EYES: Rinse cautiously with water for several minutes.Remove contact lenses, if

present and easy to do. Continue rinsing.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Storage:

None

Disposal:

Contains caustic soda and butoxy ethanol. Follow local/regional/national/international regulations.

• **Hazards Not Otherwise Classified (HNOC)**

The following medical conditions may be aggravated to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema or obstructive lung disease.

• **Interaction with Other Chemicals:**

Reacts with other household chemicals such as products containing hydrochloric acid or sulfuric acid.

3. Composition / Information on Ingredients

• **Substance:** Mixture

Component Name	CAS #	Wt%	Hazardous Codes
Water	7732-18-5	80 - 90	**----**
Sodium Carbonate	497-19-8	1 – 5	----
Sodium Hydroxide	1310-73-2	1 - 5	----
Glycol Ether EB	111- 76- 2	1 - 5	----
Fatty Alcohol Ethoxylate	9016-45-9	1 - 5	----

4. First Aid Measures

• **General Advice:** In case of accident or if you feel unwell, seek medical advice and show safety data sheet to the doctor in attendance.

• **Eye Contact:** Check for and remove contact lenses, if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation, pain, swelling or tearing persists, call a poison center or doctor/physician.

• **Skin Contact:** Remove contaminated clothing and shoes immediately. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. If irritation or redness persists, seek medical attention.

• **Inhalation:** If symptoms of exposure develop seek medical attention if symptoms persist.

• **Ingestion:** Do not induce vomiting, unless directed to do so by medical personnel. Rinse mouth with water. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Call a poison center or doctor/physician immediately.

• **Most Important Symptoms and Effects, Both Acute and Delayed:** Corrosive. Causes severe burns and tissue damage if swallowed, inhaled, or exposed to the skin or eyes.

• **Note to Physician:** Treat symptomatically and supportively.

5. Fire Fighting Measures

• Extinguishing Media:

◦ **Suitable Extinguishing Media:** Not combustible, however, if material is involved in a fire use: Fine water spray, normal foam, dry agent (carbon dioxide, dry chemical powder).

◦ **Specific Hazards Arising from Product:** Container may melt and leak in the heat of fire. Non-combustible material. Corrosive, Excessive thermal conditions may cause decomposition and yield oxides of sodium.

• Hazardous Combustion Products: Carbon monoxide, carbon dioxide, sodium oxides,

• Special Protective Equipment and Precautions for Fire- Fighters: Not combustible, however following evaporation of aqueous component residual material can decompose if involved in a fire, emitting toxic fumes. Contact with metals may liberate hydrogen gas which is extremely flammable. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to products of decomposition.

6. Accidental Release Measures

• Personal Precautions, Protective Equipment and Emergency Procedures:

◦ **For Non-emergency Personnel:** Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Avoid breathing vapor or mist. Provide adequate ventilation.

◦ **For Emergency Responders:** See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

◦ **Environmental Precautions:** See Section 12 for Ecological Information.

• Methods and Materials for Containment and Cleanup:

◦ **Small Spill:** Restrict access to area until completion of cleanup. Stop the flow if it can be done safely. For small spills, contain and collect with absorbent.

◦ **Large Spill:** Absorb and containerize. Dike large spills. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process wash-down material.

7. Handling and Storage

• Precautions for Safe Handling:

◦ **Protective Measures:** See Section 8 for proper protective equipment to be worn. Avoid contact with eyes, skin and clothing. Only use with adequate ventilation. Keep containers tightly closed while not in use.

◦ **Advice on General Occupational Hygiene:** Avoid inhalation of vapor or mist. Do not swallow. Do not get in eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety.

• Conditions for Safe Storage, Including Any Incompatibilities: Store in a dry, ventilated area. Store at 15-25 °C. Store away from heat and incompatible materials (see section 10). Store in original container. Do not store in metallic containers. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. **Keep out of the reach of children.** Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

• **Materials to Avoid:** Do not freeze

8. Exposure Controls / Personal Protection

• **Control Parameter, Including Occupational Exposure Limits:**

Ingredient Name	Exposure Limits
Sodium Hydroxide	**ACGIH TLV:** 2 mg / m3 Ceil.
Glycol Ether EB	**ACGIH TLV,** TWA: 25 ppm **OSHA PEL**: 20 ppm **NIOSH IDLH**: 20 ppm

• **Appropriate Engineering Controls:** Ensure adequate ventilation, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
- **Engineering Measures:** Showers, eyewash stations, ventilation systems
- **Environmental Exposure:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

• **Individual Protection Measures:**
- **Hygiene Measures:** Wash hands, forearms and face thoroughly after handling the product, before eating, smoking and using the lavatory and at the end of working period.
- **Skin Protection:** Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.
- **Eye and Face Protection:** Chemical splash-proof goggles, safety glasses with unperforated side shields. Make sure eyewash stations and safety showers are close to the workstation location.
- **Footwear:** Chemical resistant boots or overshoes.
- **Respiratory Protection:** An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.
- **Other:** Eye wash station should be located near work area.

9. Physical and Chemical Properties

• **Appearance (Physical State, Color):** Blue Clear Liquid
• **Odor:** Alcohol,
• **Odor Threshold:** Not Established
• **pH:** 11.0 – 12.9
• **Melting Point:** Not Applicable
• **Boiling Point:** 100 ^{o}C
• **Flammability:** Not Flammable
• **Lower Flammable:** Not Available
• **Higher Flammable:** Not Available
• **Vapour Pressure:** Not established
• **Vapour Density:** Not established
• **Flash point:** Not Applicable
• **Evaporation Rate:** Not established (n-butyl acetate = 1)

• **Decomposition Temperature:** Not applicable.
• **Specific Gravity:** 1.025 g/cm3 Water = 1
• **Partition Coefficient:** Not determined
• **Autoignition temperature:** Not determined
• **Decomposition Temperature:** Not determined
• **Volatiles:** Not determined
• **Viscosity, Kinematic** Not determined
• **Solubility in wate**r: Soluble
• **Explosive Properties:** Not Explosive
• **Oxidizing Properties:** Not determined

10. Stability and Reactivity

• **Reactivity:** Reacts with other household chemicals such as products containing hydrochloric acid to produce hazardous gases, such as chloramines.

• **Chemical Stability:** Product is stable to normal heat, light.

• **Possibility of Hazardous Reactions:** Can react with strong oxidizing agents.

• **Conditions to Avoid:** To maintain product effectiveness, avoid excessive heat, open flames.

• **Incompatibility:** Acidic products and products containing chlorine bleach.

• **Hazardous Decomposition Products:** Not known

11. Toxicological Information

• **Information on Likely Routes of Exposure:** Inhalation, Skin Contact, Ingestion, Eye Contact.

◦ **Product:**

Inhalation: Exposure to vapor or mist may irritate respiratory tract.
Eye Contact: May cause eye irritation.
Ingestion: Ingestion may cause irritation to mucous membranes and gastrointestinal tract, nausea, vomiting and diarrhea,

◦ **Ingredients:**

Sodium Hydroxide: Dermal LD50 1,350 mg/kg (Rabbit**)**

Glycol Ether EB: LD50 560 mg/m3 (oral rat)
LD50 400 mg/kg (dermal rabbit)
LC50 450 ppm (inhalation, 4 hours, rat)

• **Skin Corrosion / Irritation:**

◦ **Product:** Not classified based on available information.

◦ **Ingredients:**

Sodium Hydroxide: Category 1 A – Causes severe skin burns and eye damage.
Glycol Ether EB: Causes skin irritation

• **Serious Eye Damage/Eye Irritation:**

◦ **Product:** May cause redness and tearing of the eyes.

◦ **Ingredients:**

Sodium Hydroxide: Category 1– Causes serious eye damage.
Glycol Ether EB: Causes serious eye irritation

• **Respiratory or Skin Sensation:** No information available

• **Germ Cell Mutagenicity:** No information available

• **Carcinogenicity:** Not classified as to carcinogenicity in humans.

• **Reproductive Toxicity:** No information available

• **STOT- Single Exposure:** No information available

• **STOT - Repeated Exposure:** No information available

• **Repeated Dose Toxicity:** No information available

• **Aspiration Toxicity:** No information available

12. Ecological Information

• **Ecotoxicity:** Toxic to aquatic life with long lasting effects
- **Ingredients:**

• **Fish Toxicity:** No information available

• **Toxicity to Algae:** No information available

- **Ingredients:**

Sodium Hydroxide: EC50 Daphnia magna: 100 ppm
EC50 Shrimp: 33 – 100 ppm , 48 h
EC50 Cockle: 330 – 1,000 ppm , 48 h

• **Invertebrate Toxicity:** No information available

• **Persistence and degradability:** No information available

• **Bioaccumulative Potential:**
Biodegradation:
- **Ingredients:**

Glycol Ether EB: 90.4% rapidly degradable. (After 28 days in a ready biodegradable test).

• **Mobility in Soil:**
Glycol Ether EB: Not expected to hydrolyze readily.

• **Results of PBT and vPvB assessment half-life:** No data available.

• **Other Adverse Effects:** No data available.

13. Disposal Considerations

• **Disposal Method:** Do not empty into drains; dispose of this material and its container in a safe way. To be disposed of as hazardous waste. Disposal should be in accordance with local, state or national legislation.

• **Contaminated Packaging:** Do not reuse empty containers. Dispose of in accordance with all applicable federal, state and local regulations.

14. Transport Information

• **Land Transport:**
US DOT 7 Canada TDG Surface Transportation
UN-Number: UN 1760
Hazard Class: Class 8

Packaging Group: III
Description: Corrosive Liquid N.O.S. (Sodium Hydroxide, Solution)

• **Sea Transport:**
IMDG / IMO
UN-Number: UN 1760
Hazard Class: Class 8
Packaging Group: III
Proper Shipping Names: Corrosive Liquid N.O.S. (Sodium Hydroxide, Solution)
Ems No. : None
Marine Pollutant: None

• **Air Transport:**
ICAO / IATA
UN-Number: UN 1760
Hazard Class: None
Packaging Group: III
Proper Shipping Name: Corrosive Liquid N.O.S. (Sodium Hydroxide, Solution)

15. Regulatory Information

• **Canadian Federal Regulations:**
DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).
WHMIS classification: Class D2B Other Toxic Effects, Corrosive

• **U.S. Federal Regulations:**
TSCA Inventory Status: All component of this product are either on the Toxic Substances Control Act (TSCA) inventory list or exempt from listing.
SARA 313: No chemicals in this material are subject to the reporting requirements of SARA Title 40 of the Code of Federal Regulations, Part 372.

Clean Water Act: This product contains no substance which are regulated pollutants to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA: This material, as supplied, contains no substance(s) regulated as a hazardous under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

California Proposition 65: This product does not contain any chemicals to State of California to cause cancer, birth defects or any other reproductive harm.

16. Other Information

• **NFPA:** Flammability: 0 Health Hazard: 1 Instability: 0 Physical and Chemical Hazard: 2

• **HMIS:** Flammability: 0 Health Hazard: 1 Physical Hazard: 2 Personal Protection B

• **Preparation Date:** February 1st, 2022

• **Prepared by:** Duradek Canada Ltd. 8288 - 129 Street, Surrey BC V3W 0A6

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- **Revisions/Review Date:** Not Applicable