

## Duradek Deck Cleaner

# MATERIAL SAFETY DATA SHEET

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

## 1. Product and Supplier Identification

**Product:** "Duradek Deck Cleaner"

**Product Use:** All Purpose Cleaner and Degreaser

**Manufacturer:** Ducan Industries LTD.  
1920 Broadway Street,  
Port Coquitlam, BC Canada, V3C 2N1  
Emergency Telephone: (604) 942-0722

**Supplier:** Duradek Canada LTD 8828-129 ST Surrey, B.C. V3W 0A6 (604)S 591-2445

## 2. Composition

| Component                              | % (w/w) | Exposure Limits/<br>ACGIH | LD <sub>50</sub>           | LC <sub>50</sub>  |
|--|---------|---------------------------|----------------------------|-------------------|
| Butoxyethanol<br>(CAS No 111-76-2)     | 3-5     |                           | 470<br>mg/kg<br>(rat/oral) | Not<br>Determined |
| Sodium Hydroxide<br>(CAS No 1310-73-2) | 1-3     |                           | 365<br>mg/kg<br>(rat/oral) | Not<br>Determined |

## 3. Hazards Identification

**Emergency overview:** Warning! Harmful if swallowed, or absorbed through the skin. Moderately corrosive. The alkali in solution is not expected to cause generation of heat when diluted with water. Contact with some metals releases flammable hydrogen gas. This product contains Nitrotriacetic acid which, based on animal data, may cause cancer. Risk of cancer depends on duration and level of exposure.

### Routes of Entry:

Skin Contact: Yes      Eye Contact: Yes      Ingestion: Yes      Inhalation: Unlikely

### Acute Health Effects:

**Inhalation:** Unlikely route of entry if used as recommended by manufacturer. Inhalation may occur by aspiration if the product is ingested. If aspiration is suspected, victim will experience burning of the lungs and upper respiratory tract. If product is heated, and resulting vapours are inhaled, irritation of the upper respiratory tract may occur.

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**Skin Contact:** Skin contact will lead to overall exposure. Skin contact may cause burns which may be delayed.

**Eye Contact:** This product is a severe eye irritant. Burns may be delayed resulting in increased pain with length of time after contact.

**Ingestion:** Ingestion of this product will cause burning of the throat, mouth, esophagus. Ingestion may cause nausea, dizziness, and diarrhea. Ingestion represents an aspiration hazard through either swallowing or vomiting.

### Chronic Health Effects:

Repeated or prolonged exposure can cause drying and cracking of the skin. This product contains nitriiotriacetic acid which is a possible carcinogen based on animal evidence. Repeated exposure to this chemical may cause kidney damage.

## 4. First Aid Measures

**Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 20 minutes or until the chemical is removed, while holding the eyelid(s) open. Obtain medical attention immediately or transport to a medical facility and continue to flush the eyes en route.

**Skin Contact:** As quickly as possible, remove contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Wash gently and thoroughly with water and non-abrasive soap for at least 20 minutes or until chemical is removed. Obtain medical advice immediately. Completely decontaminate clothing, shoes and leather goods before re-use or discard.

**Inhalation:** Remove source of contamination or move victim to fresh air. If breathing is difficult, oxygen may be beneficial if administered by trained personnel, preferably on a doctor's advice. DO NOT allow the victim to move about unnecessarily. Symptoms of pulmonary edema can be delayed up to 48 hours after exposure. Immediately transport victim to an emergency care facility.

**Ingestion:** Never give anything by mouth if victim is rapidly losing consciousness. Have victim rinse mouth thoroughly with water. **Do not induce vomiting.** Dilute contents of stomach with 300 ml of water. If vomiting occurs naturally have victim lean forward to reduce risk of aspiration. Seek immediate medical attention.

## 5. Fire Fighting Measures

|   |                |
|---|----------------|
| <b>Flash point:</b>                     | Not applicable |
| <b>Autoignition temperature:</b>        | Not applicable |
| <b>Lower Explosive Limit:</b>           | Not applicable |
| <b>Upper Explosion Limit:</b>           | Not applicable |
| <b>Sensitivity to Impact:</b>           | Not sensitive. |
| <b>Sensitivity to Static Discharge:</b> | No             |

**Hazardous Combustion Products:** Oxides of carbon and phosphorus, unidentifiable hydrocarbons in smoke.

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**Extinguishing Media:** Carbon dioxide, foam, water spray or fog. Firefighting foams are the extinguishing agent of choice for most flammable liquid fires. Water may be ineffective since it may not cool the product below its flash point.

**Fire Fighting Instructions:** Evacuate area and fight fire from a safe distance or a protected location. Approach fire from upwind to avoid hazardous vapours and toxic decomposition products. Do not enter confined fire space without proper personal protection. Use approved positive pressure self-contained breathing apparatus. If possible, isolate materials not yet involved in the fire, and move containers from fire area if this can be done without risk, and protect personnel. Otherwise, fire-exposed containers or tanks should be cooled by application of hose streams and this should begin as soon as possible and should concentrate on any unwetted portions of the container.

## 6. Accidental Release Measures

**Personal Protection:** See Section 8 for proper protective equipment to be worn while cleaning an accidental spill.

**Environmental Precautions:** Prevent product from entering sewers, natural waterways, or confined spaces.

**Cleanup Procedures:** Restrict access to area until completion of cleanup. Stop the flow if it can be done safely. For small spills, neutralization with vinegar will suffice. For larger spills, soak up spill with absorbent that does not react with product. Put contaminated material into the proper covered, labeled containers for disposal. Contaminated absorbent may pose the same hazards as the spilled product.

## 7. Handling and Storage

**Handling Procedures:** Before handling this product, employees must be trained on the hazards and safe use. Before handling, it is imperative that the personal equipment requirements and personal hygiene measures be followed. Inspect containers for damage or leaks before handling. Unprotected persons should avoid all contact with this product including contaminated equipment. Use in smallest quantities in a well ventilated area. Do not use with incompatible materials such as strong oxidizing compounds, strong acids, chlorinated hydrocarbons and ammonia. Ensure all containers are correctly labeled indicating hazards. Keep container tightly closed when not in use. Wash face and hands thoroughly after handling, and before eating, drinking, or using tobacco products.

**Storage:** Store in cool, dry, well ventilated area away from incompatible materials. Keep container tightly closed when not in use.

## 8. Exposure Controls, Personal Protection

**Engineering Controls:** If used indoors, ensure adequate ventilation by using local exhaust. Prevent handling or use methods that will increase airborne vapours.

**Respiratory Protection:** No specific recommendations when product is used as recommended.

**Skin Protection:** Use chemical protective gloves, coveralls, aprons, overshoes.

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**Eye and Face Protection:** Chemical splash-proof goggles, safety glasses with unperforated side shields.

**Footwear:** Chemical resistant boots or overshoes.

**Other:** Eye wash station should be located near work area.

## 9. Physical and Chemical Properties

|                              |   |                               |                                    |
|------------------------------|---|-------------------------------|------------------------------------|
| <b>Appearance and Odour:</b> | Clear dark blue liquid with faint alcohol odour | <b>Evaporation Rate:</b>      | As for water (n-butyl acetate = 1) |
| <b>Odour Threshold:</b>      | 1 ppm (detection). 40 ppm (recognition)         | <b>pH:</b>                    | 13.0 – 14.0                        |
| <b>Physical State:</b>       | Liquid  | <b>Solubility in water:</b>   | Soluble                            |
| <b>Boiling Point:</b>        | N/A   | <b>Melting Point</b>          | ≈ 0 °C                             |
| <b>Vapour Pressure:</b>      | Not established                                 | <b>Critical Temperature:</b>  | Not applicable.                    |
| <b>Vapour Density:</b>       | Not established                                 | <b>Specific Gravity:</b>      | 1.025 (water = 1)                  |
|                              |   | <b>Partition Coefficient:</b> | Not determined                     |
|                              |   | <b>Volatiles:</b>             | Not determined                     |

## 10. Stability and Reactivity

**Chemical Stability and Reactivity:** Product is normally stable to heat, light and air.

**Incompatibility:** Avoid contact with strong oxidizing agents, strong mineral acids, chlorinated hydrocarbons, and ammonia.

**Hazardous Decomposition Products:** Oxides of carbon, phosphorus

**Conditions to Avoid:** Storage with incompatibles

**Hazardous Polymerization:** Does not occur

## 11. Toxicological Information

|                               |  |
|-------------------------------|--|
| <b>Acute Exposure:</b>        | Corrosive and toxic<br>LD <sub>50</sub> and LC <sub>50</sub> listed in Section 2.    |
| <b>Chronic Exposure:</b>      | See Section 3.   |
| <b>Exposure Limits:</b>       | See Section 2.   |
| <b>Irritancy:</b>             | See Section 3.   |
| <b>Sensitization:</b>         | See Section 3.   |
| <b>Carcinogenicity:</b>       | Contains nitritotroacetic acid, which is a possible carcinogen based on animal data. |
| <b>Teratogenicity:</b>        | Not reported   |
| <b>Reproductive toxicity:</b> | Information not available  |
| <b>Mutagenicity:</b>          | Information not available.   |
| <b>Synergistic products:</b>  | None known.  |

**Duradek Deck Cleaner****12. Ecological Information**

**Environmental toxicity:** No data available.

**Biodegradability:** No data available.

**13. Disposal Considerations**

**Canadian Environmental Protection Act:** All ingredients are listed on the DSL. Dispose according to all local, provincial and federal requirements.

**14. Transport Information**

**Canadian Transportation of Dangerous Goods Regulations:** Sodium Hydroxide Solution, Class 8, UN 1824, P.G. III

**International Air Transport Association (IATA):** Sodium Hydroxide Solution, Class 8, UN 1824, P.G. III

**International Maritime Organization (IMO):** Potassium Hydroxide Solution, Class 8, UN 1824, P.G. III  
EmS No F-A,S-B  
Stowage Category "A"

**15. Regulatory Information**

**Canadian Federal Regulations:**

**Canadian Environmental Protection Act:** All ingredients are on the Domestic Substances List.  
**WHMIS Classification:** E, D2A

**16. Other Information**

**Preparation Date:** October 04, 2004

**Prepared by:** Ducan Industries 1920 Broadway Street Port Coquitlam B.C. Canada V3C 2N1

**Disclaimer:** This Material Safety Data Sheet was prepared using information provided by CCINFO. The information in the Material Safety Data Sheet is offered for your consideration and guidance when exposed to this product. The data in this MSDS does not apply to use with any other product or in any other process.

**Revisions:** None

**Review Date:** October 04, 2007  
March 19, 2009