

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): Diamond Citrus Detergent Plus (HD 320)
Product Class: Laundry Break and Degreaser
Emergency Telephone Number: 800-813-9621
Telephone Number for Information: 519-759-2443
Manufacturer
Diamond Products
61 Shaver St. PO BOX 1507
Brantford, ON N3T 5V6

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Components (Specific Chemical Identity): | | |
|--|---|----------|
| Chemical | Common Name(s) | % |
| A | 2-Butoxy ethanol CAS #111-76-2 | 5 - 15 |
| B | Potassium hydroxide CAS #1310-58-3 | 3 - 7 |
| C | Dodecylbenzene Sulfonic Acid CAS #27176-87-0 | 1 - 5 |
| D | Triethanolamine CAS #0102-71-6 | 1 - 5 |
| E | Water CAS #7732-18-5 | 60 - 100 |

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview
Appearance and Odor: Yellow liquid, "citrus" aroma.
Primary Hazards: Corrosive
Potential Health Hazards
Route(s) of Entry: Skin Absorption: X Ingestion: X Inhalation: X
Eye: May cause chemical burns on contact.
Skin: May cause chemical burns on contact.
Ingestion: May be harmful if swallowed.
Inhalation: Overexposure to butyl vapors may be harmful.
Signs and Symptoms of Exposure: Eye Contact: Possible burning, tearing, redness and corneal damage. Skin Contact: Possible slippery feeling, redness, swelling and burns. Symptoms may be delayed. Inhalation: Overexposure to 2-Butoxy ethanol (butyl) vapors may cause central nervous system effects including drowsiness, headache, nausea and dizziness.
Carcinogenicity: NTP? No IARC Monographs? No
OSHA Regulated? No
Target Organ (s): Eyes, skin, liver, kidneys, lymphoid system, respiratory system and blood.
Medical Conditions Generally Aggravated by Exposure: N. Av.
Health Hazards, Chronic: Overexposure to 2-Butoxy ethanol may cause damage to one or more of the target organs listed above.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:
For Eye Contact: Immediately flush eyes with sanitary eye wash solution or running water for at least 15 minutes. Obtain medical attention. Continue to flush eyes until medical attention arrives. **If Swallowed:** Do not induce vomiting. Drink two glasses of water, follow with orange juice and immediately call a physician. **For Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse. Never give anything by mouth to an unconscious person. **For Overexposure to Vapors:** Remove victim to fresh air, keep warm, quiet and contact a physician.
Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES

Flammability: No **Autoignition Temperature:** N. Ap.
Flash Point (method used): None
Flammable Limits: N. Ap. LEL UEL
Extinguishing Media: N. Ap.
Water? **Foam?** **Water Fog?**
Alcohol Foam? **CO₂?** **Dry Chemical?**
Vaporizing Liquid? **Other?**
Special Fire Fighting Procedures: N. Ap.
Unusual Fire and Explosion Hazards: N. Av.
TDG Flammability Classification: Non-flammable
Sensitivity to Mechanical Impact: None
Sensitivity to Static Discharge: None

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:
Dike and contain spill with inert material (sand, earth, etc). Collect spill with mop, absorbent material (example: floor-dri) or vacuum. Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing:
Normal care in handling and storage.
Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Not required where ventilation is sufficient to maintain 2-Butoxy ethanol vapor level below listed TLV. Use NIOSH/MSHA approved organic vapor respirator in areas where vapor level exceeds TLV.
Ventilation: Local Exhaust: Not required **Special:** Not required
Mechanical (General): As required to keep vapor levels below TLV & PEL, listed in Section XI. **Other:** Not required
Protective Gloves: Natural rubber or synthetic.
Eye Protection: Approved safety goggles or shield. **Footwear:** Rubber footwear.
Other Protective Clothing or Equipment: Not required
Work/Hygienic Practices: Do not contaminate food or beverages with cleaning chemicals.

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 212°F **pH:** 13 - 14
Specific Gravity (H₂O) = 1: 1.05
Vapor Density (Air = 1): > 1 **Odor Threshold:** N. Av.
Evaporation Rate (Butyl Acetate = 1): N. Av. **Oil/Water Distribution Coefficient:** N. Av.
Solubility in Water: Complete **Melting Point:** N. Ap.
Vapor Pressure (MM HG): N. Av.

SECTION X - STABILITY AND REACTIVITY

Stability: Unstable: Stable: X
Conditions to Avoid: N. Ap.
Incompatibility (materials to avoid): N. Av.
Hazardous Decomposition or By-products: N. Av.
Hazardous Polymerization: May occur: Will not occur: X
Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

| Chemical | OSHA PEL | ACGIH TLV | Recom. | LD50 | LC50 |
|----------|----------------------|----------------------|---------------|-----------------------|---------------------------------|
| A | 25 ppm (skin) | 25 ppm (skin) | 25 ppm (skin) | 1.48 g/kg (rat, oral) | N. Av. |
| B | C2 mg/M ₃ | C2 mg/M ₃ | N. Av. | 205 mg/kg (rat, oral) | N. Av. |
| C | None | None | N. Av. | 650 mg/kg (rat, oral) | 510mg/m ³ /2h (rat.) |
| D | 3 ppm | 5mg/M ₃ | N. Av. | N. Av. | N. Av. |
| E | None | None | N. Av. | N. Av. | N. Av. |

Teratogen, Mutagen, Reproductive Toxin Status: No data with known relevance to humans.
Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.
Chemical Fate Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:
Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.
RCRA Hazard Class: D002, characteristic corrosive.

SECTION XIV - TRANSPORT INFORMATION

Not Regulated by TDG

SECTION XV - PREPARATION DATA

Prepared By: Health and Safety Department
Telephone Number: 800-813-9621

Date: January 21, 2015

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations **Canada Regulations**
TSCA Status: All ingredients listed. **DSL Status:** All Ingredients listed
CERCLA Reportable Quality: N. Av.
SARA Title III
Section 302 Extremely Hazardous Chemicals: None
Section 311/312 Hazard Category: Immediate health, chronic health
Section 313 Toxic Chemicals: Glycol ether
WHMIS: Class E Corrosive
Risk: R21, R22, R41 **Precautionary:** S2, S26, S62

SECTION XVII - OTHER INFORMATION

This product has been classified in accordance with the hazard criteria of the Control Products Regulations and the MSDS contains all the information required by the Control Products Regulations.
N. Ap. - Not Applicable; N. Av. - Not Available

HMS

3 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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