Material Safety Data Sheet
ENDURE 320 ADVANCED CARE

Section 1. Chemical product and company identification

Trade name: ENDURE 320 ADVANCED CARE
Product use: Skin antiseptic
Supplier: Ecolab Inc. Healthcare Division
370 N. Wabasha St.
St. Paul, MN 55102
1-800-332-6522

Code: 900793
Date of issue: 19-June-2008

EMERGENCY HEALTH INFORMATION: 1-800-328-0026
Outside United States and Canada CALL 1-651-222-5352 (in USA)

Section 2. Composition, information on ingredients

<table>
<thead>
<tr>
<th>Name</th>
<th>CAS number</th>
<th>% by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>ethanol</td>
<td>64-17-5</td>
<td>&gt;50</td>
</tr>
</tbody>
</table>

Section 3. Hazards identification

Physical state: Liquid. [Gel]
Emergency overview: WARNING!
FLAMMABLE LIQUID AND VAPOR.
May cause mild eye irritation.
Avoid contact with eyes. Keep away from heat, sparks and flame.

Potential acute health effects:
Eyes: May cause mild eye irritation.
Skin: No known significant effects or critical hazards.
Inhalation: No known significant effects or critical hazards.
Ingestion: No known significant effects or critical hazards.

See toxicological information (section 11)

Section 4. First aid measures

Eye contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses and flush again. Get medical attention if irritation persists.
Skin contact: Get medical attention if symptoms appear. Wash clothing before reuse.
Inhalation: If inhaled, remove to fresh air.
Ingestion: Do not induce vomiting. Never give anything by mouth to an unconscious person. If irritation persists, get medical attention.

Section 5. Fire fighting measures

Flash point: 23.333 °C (Closed cup)
Hazardous thermal decomposition products: Decomposition products may include the following materials:
- carbon dioxide
- carbon monoxide

Fire-fighting media and instructions:
Use an extinguishing agent suitable for the surrounding fire.
Dike area of fire to prevent runoff.
Flammable material

Special protective equipment for fire-fighters:
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Section 6. Accidental release measures

**Personal precautions:** No special measures required.

**Environmental precautions:** Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**Methods for cleaning up:** For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container.

Section 7. Handling and storage

**Handling:** Keep away from heat, sparks and flame. To avoid fire, eliminate ignition sources. Wash hands after handling.

**Storage:** Keep out of reach of children. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Do not store above the following temperature: 30°C

Section 8. Exposure controls/personal protection

**Engineering measures:** No special ventilation requirements.

**Personal protection:**

- **Eyes:** No special protection is required.
- **Hands:** No special protection is required.
- **Skin:** No special protection is required.
- **Respiratory:** No special protection is required.

**Exposure limits**

- ACGIH TLV (United States, 1/2007):
  - TWA: 1880 mg/m³ 8 hour(s).
  - TWA: 1000 ppm 8 hour(s).

- OSHA PEL (United States, 11/2006):
  - TWA: 1900 mg/m³ 8 hour(s).
  - TWA: 1000 ppm 8 hour(s).

Section 9. Physical and chemical properties

- **Physical state:** Liquid. [Gel]
- **Color:** White.
- **Odor:** Alcoholic-like.
- **pH:** 6.3 to 8.5 [Conc. (% w/w): 100%]
- **Relative density:** 0.869 to 0.873

Section 10. Stability and reactivity

- **Stability:** The product is stable. Under normal conditions of storage and use, hazardous polymerization will not occur.
- **Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- **Hazardous polymerization:** Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

**Potential acute health effects**

- **Eyes:** May cause mild eye irritation.
- **Skin:** No known significant effects or critical hazards.
- **Inhalation:** No known significant effects or critical hazards.
- **Ingestion:** No known significant effects or critical hazards.

**Potential chronic health effects**
Target organs: There is no known chronic effect after exposure to this product.

Section 12. Ecological information

Section 13. Disposal considerations

Waste disposal: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional/local authority requirements.

Waste classification: Unused product is D001 (Ignitable)
Consult your local or regional authorities.

Section 14. Transport information

See shipping documents for specific transportation information.

Section 15. Regulatory information

HCS Classification: Flammable liquid
U.S. Federal regulations: SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
TSCA 8(b) inventory: United States inventory (TSCA 8b): All components are listed or exempted.

California Prop. 65: No products were found.

Section 16. Other information

Hazardous Material Information System (U.S.A.):

Date of issue: 19-June-2008.
Responsible name: Regulatory Affairs
Date of previous issue: 19-June-2008.

Notice to reader: The above information is believed to be correct with respect to the formula used to manufacture the product in the country of origin. As data, standards, and regulations change, and conditions of use and handling are beyond our control, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE AS TO THE COMPLETENESS OR CONTINUING ACCURACY OF THIS INFORMATION.
MATERIAL SAFETY DATA SHEET

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Envirox Concentrate 118
PRODUCT NUMBER: 118
TRADE NAME: Envirox Concentrate 118
GENERAL USE: Water-Soluble Cleaner
CHEMICAL FAMILY: Surfactant Blend.
PRODUCT DESCRIPTION: Cloudy/Clear Liquid with Citrus Odor.

MANUFACTURER: Envirox LLC
ADDRESS (NUMBER, STREET, P.O. BOX): P.O. Box 2327, 1938 E. Fairchild St.
CITY, STATE AND ZIP CODE: Danville, IL 61834-2327
COUNTRY: USA

DATE: October 28, 2011
DATE PREPARED: October 28, 2011
SUPERSSEDES: March 8, 2011
TELEPHONE NUMBER FOR INFORMATION / Customer Service: 1-217-442-8596
CHEMTEL 24-HOUR EMERGENCY TELEPHONE NUMBER: 1-800-255-3924
North America Toll Free: 1-813-248-0585
International:

SECTION 2 - HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Hydrogen Peroxide</th>
<th>% (by Weight)</th>
<th>CAS #</th>
<th>EINECS #</th>
<th>Hazard Symbol</th>
<th>RISK PHRASES (Full Text Section 19)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-5</td>
<td>7722-84-1</td>
<td>231-785-0</td>
<td>None</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Notes: All SARA Title III materials have been reported. All ingredients contained in this formula are listed on the Toxic Substances Control Act (TSCA) Chemical Inventory. Proprietary non-hazardous ingredients not listed.

SECTION 3 - HAZARDS IDENTIFICATION

INHALATION:
Not expected to be a significant route of exposure. Inhalation of mists may cause mild irritation.

SKIN:
May cause minor to moderate skin irritation with dryness & stinging; this is more likely from prolonged or multiple exposures.

EYES:
May cause mild to moderate eye irritation from splashing or contact with mists.

INGESTION:
May cause stomach upset, including vomiting and/or nausea. Product is only mildly toxic by ingestion.

CARCINOGENICITY:
NTP? NO
IARC MONOGRAPHS? NO
OSHA REGULATED? NO

SECTION 4 - FIRST AID MEASURES

INHALATION:
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-mouth, if possible. Call a poison control center or doctor for further treatment advice.

EYES:
Hold eye open and rinse slowly and gently with potable water or eye wash solution for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

SKIN:
Remove contaminated clothing. Rinse skin immediately with plenty of water. Seek medical attention for severe/persistent cases.

INGESTION:
Call poison control center (Toll-Free at 1-800-222-1222 within the USA) or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

SECTION 5 - FIRE FIGHTING MEASURES

GENERAL HAZARDS:
Not Flammable.

EXTINGUISHING MEDIA:
Carbon Dioxide or Dry Chemical - choose extinguishing media to fight surrounding fire.

FIRE FIGHTING PROCEDURES:
Firefighter should wear self-contained breathing apparatus and turn-out gear when fighting any chemical fire.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None applicable.

HAZARDOUS COMBUSTION PRODUCTS:
None known.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Do not flush large quantities of material into sewers or bodies of water. Use absorbent to trap spilled material, then place in waste container. Small spills (less than a gallon) can be flushed into a sanitary sewer with plenty of water.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store indoors; Store below 95°F, avoiding temperature extremes. Do not store with incompatible materials (see Section 10).

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

HAZARDOUS COMPONENTS

<table>
<thead>
<tr>
<th>TWA ppm</th>
<th>TWA mg/m³</th>
<th>STEL ppm</th>
<th>STEL mg/m³</th>
<th>TLV/TWA ppm</th>
<th>TWA mg/m³</th>
<th>TWA ppm</th>
<th>PEL mg/m³</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>1</td>
<td>1.4</td>
<td>75 IDLH</td>
<td>1</td>
<td>1</td>
<td>1.4</td>
<td></td>
</tr>
</tbody>
</table>

PERSONAL PROTECTION

RESPIRATORY PROTECTION:

Local Exhaust Ventilation is OK. NIOSH/OSHA approved respirators may be used if respiratory irritation occurs.

PROTECTIVE GLOVES:

Impervious protective gloves are recommended - especially for sustained contact. Neoprene is a good choice for glove material.

EYE PROTECTION:

Safety glasses with side shields are recommended where a splash hazard exists and as a good industrial practice.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Not generally required. An impervious apron is suggested for situations where a splash hazard exists.

WORK / HYGIENIC PRACTICES:

Wash hands with soap and water after contact. Use emollient cleanser for mild dryness of skin.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR:

Clear liquid with a pleasant citrus odor.

PH:

4.4±0.5%

BOILING POINT / BOILING RANGE:

212°F

FLASH POINT:

None

FLAMMABLE LIMITS:

LEL: NA

UEL: NA

AUTOIONGITION TEMPERATURE:

NA

SECTION 10 - STABILITY AND REACTIVITY

STABILITY:

STABLE

CONDITIONS TO AVOID:

Temperature extremes

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong oxidizers, permanganesates, reducing agents, acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

None under normal conditions

HAZARDOUS POLYMERIZATION:

Will not occur.

CONDITIONS TO AVOID:

None related to polymerization.

SECTION 11 - TOXICOLOGICAL INFORMATION

Hazardous Components

<table>
<thead>
<tr>
<th>CAS #</th>
<th>EINECS #</th>
<th>LD50 of Ingredient (Specify Species and Route)</th>
<th>LC50 of Ingredient (Specify Species)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen Peroxide</td>
<td>7722-84-1</td>
<td>Oral, rat: LD50 = 375 mg/kg; Oral, mouse: LD50 = 1500 mg/kg</td>
<td>Inhalation, rat: LC50 = 2000 mg/m³</td>
</tr>
</tbody>
</table>

SECTION 12 - ECOLOGICAL INFORMATION

No ecological information is available for this blended product; it is known to be biodegradable, however, based on the ingredients used in its manufacture. Product contains no Priority Pollutants under the Clean Water Act.
MATERIAL SAFETY DATA SHEET

PRODUCT NAME: Envirox Concentrate 118
PRODUCT NUMBER: 118
DATE: October 28, 2011

SECTION 13 - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
Biodegradable product may be flushed to sewage treatment facility (in small quantities - see Section 6) or landfill. Dispose of container according to State, Federal and Local laws.

SECTION 14 - TRANSPORT INFORMATION

PROPER SHIPPING NAME: Cleaning Solution not regulated.

DOT HAZARD CLASS / Pack Group: Not regulated
IATA HAZARD CLASS / Pack Group: Not regulated.

REFERENCE: None
UN / NA IDENTIFICATION NUMBER: None
LABEL: None
HAZARD SYMBOLS: None
Hazard Identification Number (HIN): None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 - REGULATORY INFORMATION

TSCA (USA - Toxic Substance Control Act): All components are listed.
SARA TITLE III (USA - Superfund Amendments and Reauthorization Act):
Acute Health: Yes
Chronic Health: No
Fire: No
Sudden Release of Pressure: No

313 REPORTABLE INGREDIENTS:
None

CERCLA (USA - Comprehensive Response Compensation and Liability Act):
No reportable ingredients

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986:
No reportable ingredients

CPR (Canadian Controlled Products Regulations):
No WHMIS warnings required.

IDL (Canadian Ingredient Disclosure List): Listed.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List):
Listed on DSL.

WGK Water Quality Index: 1

SECTION 16 - OTHER INFORMATION

LEGEND: NA=Not Available, NE= Not Established, ND= Not determined, C= Carcinogen, NTP= National Toxicology Program.

WHMIS HAZARD RATINGS

| HEALTH | 1 | 0 = INSIGNIFICANT |
| FLAMMABILITY | 0 | 1 = SLIGHT |
| PHYSICAL HAZARD | 0 | 2 = MODERATE |
| PERSONAL PROTECTIVE EQUIPMENT | B* | 3 = HIGH |
| | | 4 = EXTREME |

*Goggles and Safety Glasses are recommended but not required

REVISION SUMMARY:

MSDS Prepared by:
ChemTel Inc.
1305 North Florida Avenue
Tampa, Florida USA 33602-2902
Toll Free North America 1-888-255-3924 Int. +01 613-249-0573
Website: www.chemtelinc.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to persons or third parties proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.
MINOLTA CONFIDENTIAL

Material Safety Data Sheet
May be used to comply with OSHA's Hazard Communication Standard.

IDENTITY (As Used on Label and List) Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I
Manufacturer's Name
Emergency Telephone Number
Address (Number, Street, City, State, and Zip Code)
Telephone Number for Information
Date Prepared August 22, 1989
Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information
Hazardous Components (Specific Chemical Identity/Common Name(s)) OSHA PEL-TWA ACGIH TWA Other Limits Recommended % (optional)
Polyester resin N.A. N.A. > 8.5
Carbon black (1533-86-4) 3.5mg/m³ 3.5mg/m³ 1 - 3
Organic pigment N.A. N.A. 1 - 3
Polypropylene (9003-07-0) N.A. N.A. 1 - 1
Amorphous silica (7631-86-9) N.A. N.A. < 1

Toner is considered as a mixture of nuisance dust.
As Total Nuisance Dust 15mg/m³ 10mg/m³

Section III - Physical/Chemical Characteristics
Boiling Point N.A. Specific Gravity (H₂O = 1) 1.2
Vapor Pressure (mm Hg.) N.A. Melting Point N.A.
Molar Density (Air = 1) N.A. Evaporation Rate (Butyl Acetate = 1) N.A.
Solubility in Water Negligible
Appearance and Odor Black powder / faint odor

Section IV - Fire and Explosion Hazard Data
Flash Point (Method Used) N.A. Flammable Limits LEL Upper
LEL N.A. UEL N.A.
Extinguishing Media Water, foam, dry chemical
Special Fire Fighting Procedures Avoid inhalation of smoke.

Unusual Fire and Explosion Hazards
When dispersed in air, it forms explosive mixtures.

(Reproduce locally)
Material Safety Data Sheet

IDENTITY (As Used on Label and List)
Photocatalyst for P-224

Section I

Manufacturer's Name
Emergency Telephone Number

Address (Number, Street, City, State, and ZIP Code)
Telephone Number for Information

Date Prepared
August 22, 1989

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity/Common Name(s)) OSHA PEL-TWA ACGIH TWA Other Limits Recommended % (optional)

Name Hazardous Ingredients

- Aluminum chloride
  - N.A.
  - N.A.
  - None
  - > 0.7

- Blastic resin
  - N.A.
  - N.A.
  - None
  - < 1

- Photosensitive material
  - N.A.
  - N.A.
  - None
  - < 1

- Phosgene
  - N.A.
  - N.A.
  - None
  - < 1

Section III - Physical/Chemical Characteristics

Boiling Point
Specific Gravity (H2O=1)
2.7

Vapor Pressure (mm Hg.)
N.A.
Melting Point
N.A.

Vapor Density (AIR=1)
N.A.
Evaporation Rate (Butyl Acetate=1)
N.A.

Solubility in Water
Negligible

Appearance and Odor
Green, odorless and solid cylinder

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used)
N.A.
Flammable Limits
LEL K.A. UEL K.A.

Extinguishing Media
CO2, dry chemical, foam or water

Special Fire Fighting Procedures
This material will be scratched in the case of fire.

Unusual Fire and Explosion Hazards
This material has no unusual fire or explosion hazards.

OSHA 174. Sept. 1982
Section One: Product Information

Product Name: Liquid Paper Correction Fluid - Fast Drying
Colors: Bond White

Includes: Liquid Paper All Purpose Correction Fluid

Section Two: Composition

Titanium dioxide (13463-67-7), solvent naphtha (64742-89-8), mineral spirits (64742-48-9), resins, dispersant, colorants, fragrance

Section Three: Hazards Identification

If vapors are deliberately inhaled, the following symptoms may occur: respiratory irritation, dizziness, drowsiness, headache, nausea, unconsciousness, convulsions, cardiac sensitization, coma, and death.

Section Four: First Aid Measures

Inhalation: This product is considered safe under normal use conditions.
Skin Contact: Wash with soap and water.
Eye Contact: Irritation may occur. Wash through with water.
Ingestion: Contact a physician. NOTE TO PHYSICIAN: Contains solvent naphtha and mineral spirits, which may cause chemical pneumonitis.

Section Five: Fire Fighting Measures

Flash Point: 25.5F (Closed Cup)
Flammability Limits (% by volume): Lower: 1%
Upper: 8%
Extinguishing Media: Dry chemical, foam, carbon dioxide.
Special Fire Fighting Measures: In fires involving large quantities, use self-contained breathing apparatus. Cool fire-exposed containers with water spray fog.

Unusual Fire and Explosion Hazards: Product is flammable. May produce hazardous decomposition products.

Section Six: Accidental Release Measures

In Case of Spill or Accidental Release: Wipe up with absorbent material.

Section Seven: Handling and Storage

Handling: No special handling requirements.
Storage: In large quantities, store in a well-ventilated area.
Section Eight: Exposure Controls and Personal Protection

Eye Protection: None under normal use conditions.
Clothing: None under normal use conditions.
Respirator: None under normal use conditions.
Ventilation: None under normal use conditions.

Section Nine: Physical and Chemical Properties

- Boiling Point: 209 - 230°F
- Specific Gravity: 1.29
- Vapor Pressure: 124 mm Hg at 100°F
- Solubility in Water: Negligible
- Evaporation Rate: 3.6 (butyl acetate = 1)
- Appearance, Odor: White fluid; solvent odor

Section Ten: Stability and Reactivity

Stability: Stable
Conditions to Avoid: Open flames or other ignition sources.
Chemical Incompatibility: Strong oxidizers
Hazardous Decomposition: May produce oxides of carbon, nitrogen, and various hydrocarbons in fire.
Hazardous Polymerization: Will not occur

Section Eleven: Toxicological Information

IARC Monographs: No
National Toxicology Program: No
OSHA Regulated: No

Section Twelve: Ecological Information

Not available

Section Thirteen: Disposal Considerations

Dispose in accordance with Federal, State, and Local Regulations.

Section Fourteen: Transport Information

ORR/D Consumer Commodity
Flammable Liquid, n.o.s., (petroleum distillates), Class 3, UN1993, PGII (25.5F CC), Ltd. Qty's, EmS#3-07
Consumer Commodity, 9, ID6000, packing instruction 910

Section Fifteen: Regulatory Information

TSCA INVENTORY: The product on this Material Safety Data Sheet is not listed on the Toxic Substances Control Act Inventory.
All ingredients used to manufacture this product are listed on the TSCA Inventory.

Section Sixteen: Other Information

<table>
<thead>
<tr>
<th>HHS Code</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Health</td>
<td>2</td>
</tr>
<tr>
<td>Flammability</td>
<td>3</td>
</tr>
<tr>
<td>Reactivity</td>
<td>0</td>
</tr>
<tr>
<td>Personal Protection</td>
<td>N/A</td>
</tr>
</tbody>
</table>

0 = Minimal / 4 = Severe

Sanford NA has been advised by Counsel that the OSHA Hazard Communication Standard does not apply to the Sanford Product described in this Material Safety Data Sheet. The reason for the exemption is contained in 29 CFR 1910.1200(b)(6)(ix) as amended July 1, 2004 per the Code of Federal Regulations. The information contained in this MSDS is forwarded to you for your information, but is not meant to imply that the product is covered by the Hazard Communication Standard nor is this MSDS meant to comply with all requirements of the Hazard Communication Standard.
1. Product and Company Identification

Product Name: Super San-Cloth® Germicidal Disposable Wipes
CAS #: Mixture
Product use: Disinfectant Cleaner
Manufacturer: Professional Disposables International, Inc.
Two Nice-Pak Park
Orangeburg, NY 10962-1378
or Distributed by:
Professional Disposables International Ltd, Ontario CA
Phone (USA) 1-845-365-1700 (M-F 8am - 5pm)
Phone (CANADA) 1-800-283-7087

2. Hazards Identification

Emergency overview: DANGER
COMBUSTIBLE
Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove and wash contaminated clothing before reuse.

Potential short term health effects:

Routes of exposure: Eye, Skin contact, Inhalation, Ingestion.

Eyes: The product produced eye irritation clearing in 7 days or less.

Skin: Under the conditions of the study, no dermal irritation was evident at 72 hours.

Inhalation: Not a normal route of exposure. Excessive intentional inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).

Ingestion: Not a normal route of exposure. May cause stomach distress, nausea or vomiting.

Target organs: Eyes. Respiratory system. Skin.

Chronic effects: Prolonged or repeated exposure can cause drying, defatting and dermatitis.

Signs and symptoms: Symptoms may include redness, edema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>CAS #</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>30 - 60</td>
</tr>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>68391-01-5</td>
<td>0.25</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl [(ethyl/phenyl) methyl] dimethyl, chlorides</td>
<td>68950-79-6</td>
<td>0.25</td>
</tr>
</tbody>
</table>

4. First Aid Measures

First aid procedures: Eye contact
Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation: Not a normal route of exposure. If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.

Ingestion: Not a normal route of exposure. Do not induce vomiting. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician: Symptoms may be delayed.

General advice: If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

### 5. Fire Fighting Measures

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flammable properties</td>
<td>Flammable per ICAO Test Method 1.1.2.1</td>
</tr>
<tr>
<td>Extinguishing media</td>
<td>Carbon dioxide, Alcohol foam, Dry chemical.</td>
</tr>
<tr>
<td>Suitable extinguishing media</td>
<td>Carbon dioxide, Alcohol foam, Dry chemical.</td>
</tr>
<tr>
<td>Unsuitable extinguishing media</td>
<td>Do not use a solid water stream as it may scatter and spread fire.</td>
</tr>
<tr>
<td>Protection of firefighters</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific hazards arising from</td>
<td>Firefighters should wear full protective clothing including self contained breathing apparatus.</td>
</tr>
<tr>
<td>the chemical</td>
<td></td>
</tr>
<tr>
<td>Protective equipment for</td>
<td></td>
</tr>
<tr>
<td>firefighters</td>
<td></td>
</tr>
<tr>
<td>Hazardous combustion products</td>
<td>May include and are not limited to: Oxides of carbon.</td>
</tr>
<tr>
<td>Explosion data</td>
<td></td>
</tr>
<tr>
<td>Sensitivity to mechanical</td>
<td>Not available</td>
</tr>
<tr>
<td>impact</td>
<td></td>
</tr>
<tr>
<td>Sensitivity to static discharge</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 6. Accidental Release Measures

<table>
<thead>
<tr>
<th>Precaution</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Personal precautions</td>
<td>Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.</td>
</tr>
<tr>
<td>Methods for containment</td>
<td>Prevent entry into waterways, sewers, basements or confined areas.</td>
</tr>
<tr>
<td>Methods for cleaning up</td>
<td>Remove sources of ignition. Before attempting clean up, refer to hazard data given above. Use broom or dry vacuum to collect material for proper disposal without raising dust. Rinse area with water. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice.</td>
</tr>
<tr>
<td>Other information</td>
<td>Pick up and discard towel.</td>
</tr>
</tbody>
</table>

### 7. Handling and Storage

| Handling                           | Use good industrial hygiene practices in handling this material. |
| Storage                            | Keep out of reach of children. Store in a closed container away from incompatible materials. Store in a closed container away from incompatible materials. |
## 8. Exposure Controls / Personal Protection

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td></td>
<td>TWA: 200 ppm</td>
</tr>
<tr>
<td></td>
<td>STEL: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl</td>
<td>ACGIH-TLV</td>
</tr>
<tr>
<td>[(ethylphenyl) methyl] dimethyl, chlorides</td>
<td>Not established</td>
</tr>
<tr>
<td></td>
<td>OSHA-PEL</td>
</tr>
<tr>
<td></td>
<td>Not established</td>
</tr>
</tbody>
</table>

**Engineering controls**
- General ventilation normally adequate.

**Personal protective equipment**
- Wear safety glasses with side shields.
- Rubber gloves. Confirm with a reputable supplier first.
- As required by employer code.
- Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
- Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

## 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Clear, Liquid saturated on wipe</td>
</tr>
<tr>
<td>Color</td>
<td>Colorless liquid</td>
</tr>
<tr>
<td>Form</td>
<td>Pre-moistened towelette</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Physical state</td>
<td>Solid</td>
</tr>
<tr>
<td>pH</td>
<td>8.25 - 8.5 (Liquid)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Pour point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash point</td>
<td>23.88 °C (75 °F) (Towel) (ASTM D56) Tag Closed Cup</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not available</td>
</tr>
<tr>
<td>Flammability limits in air, lower, %</td>
<td>Not applicable</td>
</tr>
<tr>
<td>by volume</td>
<td></td>
</tr>
<tr>
<td>Flammability limits in air, upper, %</td>
<td>Not applicable</td>
</tr>
<tr>
<td>by volume</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>Not available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>0.892 (Liquid)</td>
</tr>
<tr>
<td>Octanol/water coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (H2O)</td>
<td>Wipe is not soluble</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>VOC (Weight %)</td>
<td>&gt; 50 %</td>
</tr>
</tbody>
</table>
10. Stability and Reactivity

Chemical stability
Stable under recommended storage conditions.

Conditions to avoid
Avoid high temperatures. Do not mix with other chemicals.

Incompatible materials
Oxidizers. Anionic surfactants.

Hazardous decomposition products
May include and are not limited to: Oxides of carbon.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

11. Toxicological Information

Acute effects
Acute LD50: 5000 mg/kg, Rat, Oral
Acute LD50: 2000 mg/kg, Rat, Dermal

Component analysis - LC50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>Not available</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>16070 mg/l/4h rat</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl) methyl] dimethyl, chlorides</td>
<td>Not available</td>
</tr>
</tbody>
</table>

Component analysis - Oral LD50

<table>
<thead>
<tr>
<th>Ingredient(s)</th>
<th>LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzyl-C12-18-alkyldimethyl ammonium chlorides</td>
<td>240 mg/kg rat</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>4396 mg/kg rat</td>
</tr>
<tr>
<td>Quaternary ammonium compounds, C12-18-alkyl[(ethylphenyl) methyl] dimethyl, chlorides</td>
<td>250 mg/kg rat</td>
</tr>
</tbody>
</table>

Effects of acute exposure

- Eye: The product produced eye irritation clearing in 7 days or less. Under the conditions of the study, no dermal irritation was evident at 72 hours.
- Skin: Not a normal route of exposure. Exposure may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
- Inhalation: Not a normal route of exposure. May cause respiratory tract irritation and central nervous system effects (headache, dizziness).
- Ingestion: Non-hazardous by OSHA criteria.
- Sensitization: Non-hazardous by OSHA criteria.
- Chronic effects: Non-hazardous by OSHA criteria.
- Carcinogenicity: Non-hazardous by OSHA criteria.

ACGIH - Threshold Limit Values - Carcinogens
- Isopropanol: 67-63-0 A4 - Not Classifiable as a Human Carcinogen

IARCC - Group 3 (Not Classifiable)
- Monograph 71 [1999], Supplement 7 [1987], Monograph 15 [1977]

Mutagenicity: Non-hazardous by OSHA criteria.
Reproductive effects: Non-hazardous by OSHA criteria.
Teratogenicity: Non-hazardous by OSHA criteria.

12. Ecological Information

Ecotoxicity - Freshwater Algae Data
- Isopropanol: 67-63-0 96 hr Ec50 Scenedesmus subspicatus: >1000 mg/L; 72 hr Ec50 Scenedesmus subspicatus: >1000 mg/L

Ecotoxicity - Freshwater Fish Species Data
- Isopropanol: 67-63-0 96 hr LC50 Pimephales promelas: 9640 mg/L (flow-through); 96 hr LC50 Pimephales promelas: 11130 mg/L (static); 96 hr LC50 Lepomis macrochirus: >1400000 μg/L

Ecotoxicity - Microtox Data
- Isopropanol: 67-63-0 5 Min EC50 Photobacterium phosphoreum: 35930 mg/L

Ecotoxicity - Water Flea Data
- Isopropanol: 67-63-0 48 hr EC50 Daphnia magna: 13299 mg/L

Environmental effects: Not available
### 13. Disposal Considerations

- **Aquatic toxicity**: Not available
- **Persistence / degradability**: Not available
- **Bioaccumulation / accumulation potential**: Not available
- **Mobility in soil**: Not available
- **Chemical fate information**: Not available

<table>
<thead>
<tr>
<th>Waste codes</th>
<th>Disposal instructions</th>
<th>U.S. Department of Transportation (DOT) Hazard Class</th>
<th>Consumer Commodity ORM-D: Exception H sized packets are not regulated by DOT by small quantity exemption.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Waste from residues / unused products</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Contaminated packaging</td>
<td>Not available</td>
<td>Not available</td>
<td>Not available</td>
</tr>
</tbody>
</table>

### 14. Transport Information

- **EPA registration number**: 540-A-00000
- **Classification**: This product is a "Hazardous Substance" as defined by the Office of Hazardous Waste, Hazardous Substances and Industrial Waste Regulations.

### 15. Regulatory Information

- **OSHA**: Not available
- **CERCLA/SARA Hazardous Substances - Not applicable**
- **Toxic Substance Control Act (TSCA) Inventory**: Not available
- **EPA TSCA Inventory**: Not available
- **EPA TSCA Registration**: Not available
- **EPA TSCA Not available**

<table>
<thead>
<tr>
<th>U.S. Federal Regulations</th>
<th>CERCLA/SARA - Section 301: Emission Reporting</th>
<th>CERCLA/SARA - Section 305: Emission Reporting</th>
<th>CERCLA/SARA - Section 311: Hazardous Substance Inventory</th>
<th>CERCLA/SARA - Section 312: Hazardous Substance Inventory</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA - TSCA: Section 303</td>
<td>67-56-8</td>
<td>1.0% of mixture concentration (only if manufactured by the strong acid process)</td>
<td>Not available</td>
<td>Not available</td>
</tr>
<tr>
<td>Occupational Safety and Health Administration (OSHA)</td>
<td>Section 302 extremely hazardous chemical</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>29 CFR 1910.1200 hazardous chemical</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>CERCLA (Superfund) reportable quantity</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

**Clean Water Act (CWA)**: Not available
### Workplace Hazards

#### Health Hazards

<table>
<thead>
<tr>
<th>Hazard</th>
<th>PEL (mg/m³)</th>
<th>TLV (mg/m³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>Ammonia</td>
<td>40</td>
<td>35</td>
</tr>
</tbody>
</table>

#### Physical Hazards

<table>
<thead>
<tr>
<th>Hazard</th>
<th>PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>Ammonia</td>
<td>40</td>
<td>35</td>
</tr>
</tbody>
</table>

#### Fire and Explosion Hazards

- **Fire:** Extinguishing Media: Water, Foam, Carbon Dioxide, Dry Chemical
- **Explosion:** None

#### Cytotoxicity

- **Eye:** None
- **Skin:** None
- **Inhalation:** None

#### Acute Toxicity

- **Organophosphates**
  - Skin Absorption:
    - 09860-90-06
    - 010-70-06
  - Pel: 1mg/m³, TLV: 1mg/m³
  - TV: 1mg/m³, TV: 1mg/m³

#### Exposure Limits

<table>
<thead>
<tr>
<th>Hazard</th>
<th>PEL</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ammonia</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>Ammonia</td>
<td>40</td>
<td>35</td>
</tr>
</tbody>
</table>

#### Immediate Danger

- **Respiratory:** Organic Solvents, Ammonia
- **Skin:** Ammonia
- **Eye:** Ammonia

### Potential Health Effects

- **Cytotoxicity:** None
- **Acute Toxicity:** None

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**Address:**
Nukote International Inc.
1227 Ridgeway Ave.
Rochester, NY 14615

**Phone:**
(585) 453-6000

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**Product Identification:**
CE HP 8100 LaserJet