# SAFETY DATA SHEET

## 1. Identification

<table>
<thead>
<tr>
<th>Product identifier</th>
<th>HAND SANITIZER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other means of identification</td>
<td>Not available.</td>
</tr>
<tr>
<td>Recommended use</td>
<td>Kills harmful bacteria and germs</td>
</tr>
<tr>
<td>Recommended restrictions</td>
<td>None known.</td>
</tr>
</tbody>
</table>

**Manufacturer/Importer/Supplier/Distributor information**

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Irving Blending &amp; Packaging</th>
</tr>
</thead>
<tbody>
<tr>
<td>Company name</td>
<td>NB E2L 4E6</td>
</tr>
<tr>
<td>Address</td>
<td>555 Courtenay Bay Causeway Saint John NB E2L 4E6 Canada</td>
</tr>
<tr>
<td>Telephone</td>
<td>1.800.574.5823</td>
</tr>
<tr>
<td>E-mail</td>
<td>Not available.</td>
</tr>
<tr>
<td>Emergency phone number</td>
<td>1.800.424.9300 (CHEMTREC)</td>
</tr>
<tr>
<td>Supplier</td>
<td>See above.</td>
</tr>
</tbody>
</table>

## 2. Hazard identification

### Physical hazards

- Flammable liquids

### Health hazards

- Serious eye damage/eye irritation
- Specific target organ toxicity, single exposure

### Environmental hazards

- Not classified.

### WHMIS 2015 defined hazards

- Not classified

### Label elements

- Signal word: Danger
- Hazard statement: Highly flammable liquid and vapor. Causes serious eye irritation. May cause drowsiness or dizziness.
- Precautionary statement
  - Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating and lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective clothing, eye protection and face protection. Wash thoroughly after handling. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area.
  - Response: In case of fire: Use appropriate media to extinguish. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.
  - Storage: Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.
  - Disposal: Dispose of container in accordance with local, regional, national and international regulations.

### WHMIS 2015: Health Hazard(s) not otherwise classified (HHNOC)

- None known

### WHMIS 2015: Physical Hazard(s) not otherwise classified (PHNOC)

- None known

### Hazard(s) not otherwise classified (HNOC)

- None known.
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

3. Composition/Information on ingredients

<table>
<thead>
<tr>
<th>Mixture</th>
<th>Chemical name (CAS number)</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Isopropyl Alcohol (67-63-0)</td>
<td>73</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethanol (64-17-5)</td>
<td>0.1-1*</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Glycerol (56-81-5)</td>
<td>1-5*</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments

- US GHS: The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.
- *CANADA GHS: The exact percentage (concentration) of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation

- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin contact

- Product intended to be used on skin.

Eye contact

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Ingestion

- Not intended for ingestion. Product is naturally bitter.
- Rinse mouth. Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious or is convulsing. Obtain medical attention.

Most important symptoms/effects, acute and delayed

- May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed

- Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

General information

- Take off all contaminated clothing immediately. If you feel unwell, seek medical advice (show the label where possible). Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting measures

Suitable extinguishing media


Unsuitable extinguishing media

- Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

- Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

- Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

- In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods

- Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards

- Highly flammable liquid and vapor.

Hazardous combustion products

- May include and are not limited to: Oxides of carbon.
6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up
Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Environmental precautions
Avoid discharge into drains, water courses or onto the ground. Do not discharge into lakes, streams, ponds or public waters.

7. Handling and storage

Precautions for safe handling
Not intended for ingestion. Product is naturally bitter. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid contact with eyes. Avoid contact with clothing. Use good industrial hygiene practices in handling this material. When using do not eat or drink.

Conditions for safe storage, including any incompatibilities
Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure controls/Personal protection

Occupational exposure limits
Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Mist</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>984 mg/m³</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>492 mg/m³</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Respirable mist.</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
</tbody>
</table>
### Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)

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<tr>
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<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

### Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

### Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1880 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td>TWA</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>1230 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>983 mg/m3</td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

### Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>15 minute</td>
<td>1250 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td>15 minute</td>
<td>20 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>15 minute</td>
<td>400 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>8 hour</td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>PEL</td>
<td>1900 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
<td></td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m3</td>
<td>Total dust.</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>PEL</td>
<td>980 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
<td></td>
</tr>
</tbody>
</table>

### US. ACGIH Threshold Limit Values

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>STEL</td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>400 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
</tr>
</tbody>
</table>

### US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td>TWA</td>
<td>1900 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td>STEL</td>
<td>1225 mg/m3</td>
</tr>
</tbody>
</table>

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US. NIOSH: Pocket Guide to Chemical Hazards

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>500 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA 980 mg/m3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm</td>
</tr>
</tbody>
</table>

**Biological limit values**

<table>
<thead>
<tr>
<th>ACGIH Biological Exposure Indices</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
<td>Value</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropanol (Isopropyl Alcohol)</td>
<td>40 mg/L</td>
<td>Acetone</td>
<td>Urine</td>
</tr>
</tbody>
</table>

* - For sampling details, please see the source document.

**Appropriate engineering controls**

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

- **Eye/face protection**: Wear safety glasses with side shields.
- **Skin protection**
  - **Hand protection**: Not normally required when used as directed. When handling in large quantities or responding to emergency situations, the use of appropriate skin protection is recommended.
  - **Other**: Wear appropriate chemical resistant clothing. As required by employer code.
- **Respiratory protection**: Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. Respirator should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134), CAN/CSA-Z94.4 and ANSI's standard for respiratory protection (Z88.2).
- **Thermal hazards**: Not applicable.

**General hygiene considerations**

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. When using do not eat or drink.

9. **Physical and chemical properties**

- **Appearance**: Clear
- **Physical state**: Liquid.
- **Form**: Liquid.
- **Color**: Colorless
- **Odor**: Characteristic
- **Odor threshold**: Not available.
- **pH**: Not available.
- **Melting point/freezing point**: Not available.
- **Initial boiling point and boiling range**: > 176 °F (> 80 °C)
- **Pour point**: Not available.
- **Specific gravity**: Not available.
- **Partition coefficient (n-octanol/water)**: Not available.
- **Flash point**: 60.8 °F (16.0 °C) Pensky-Martens Closed Cup
- **Evaporation rate**: Not available.
- **Flammability (solid, gas)**: Not applicable.
- **Upper/lower flammability or explosive limits**
  - Flammability limit - lower (%): Not available.
  - Flammability limit - upper (%): Not available.
  - Explosive limit - lower (%): Not available.
  - Explosive limit - upper (%): Not available.
  - Vapor pressure: Not available.
10. Stability and reactivity

Reactivity
This product may react with strong oxidizing agents.

Possibility of hazardous reactions
No dangerous reaction known under conditions of normal use.

Chemical stability
Material is stable under normal conditions.

Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Do not mix with other chemicals.

Incompatible materials

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

11. Toxicological information

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

Information on likely routes of exposure

Ingestion
Not intended for ingestion. Product is naturally bitter. May cause stomach distress, nausea or vomiting.

Inhalation
May cause drowsiness and dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be harmful.

Skin contact
No adverse effects due to skin contact are expected.

Eye contact
Causes serious eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics
May cause drowsiness and dizziness. Headache. Nausea, vomiting. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity
Not known.

Components | Species | Test Results
--- | --- | ---
Ethanol (CAS 64-17-5) |  |  
**Acute**
**Dermal**
LD50 | Rabbit | > 15800 mg/kg, SIDS initial assessment report

**Inhalation**
LC50 | Mouse | > 6000 ppm, 60 Minutes, ECHA
      | Rat | 31623 ppm, 4 Hours, HMIRA

**Oral**
LD50 | Rat | 12400 mg/kg, ECHA
      | | 10470 mg/kg, ECHA

Glycerol (CAS 56-81-5) |  |  
**Acute**
**Dermal**
LD50 | Guinea pig | 56750 mg/kg, ECHA
      | | 45 ml/kg, ECHA

**Inhalation**
LC50 | Rat | > 275 mg/l/4h, Hours, ECHA
      | | 275000 mg/m³, 4 hours, ECHA
<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>11500 mg/kg, ECHA</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dermal</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LD50</td>
<td>Rabbit</td>
<td>13900 mg/kg, ECHA</td>
</tr>
<tr>
<td>Inhalation</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>LC50</td>
<td></td>
<td>&gt; 10000 ppm, 6 Hours, ECHA</td>
</tr>
<tr>
<td>25000 mg/m³, 6 Hours, ECHA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16970 mg/l/4h, HMIRA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oral</td>
<td>Rat</td>
<td>5840 mg/kg, ECHA</td>
</tr>
<tr>
<td>LD50</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Skin corrosion/irritation
- Not expected to be a primary skin irritant.

Exposure minutes
- Not available.

Erythema value
- Not available.

Oedema value
- Not available.

Serious eye damage/eye irritation
- Causes serious eye irritation.

Corneal opacity value
- Not available.

Iris lesion value
- Not available.

Conjunctival reddening value
- Not available.

Conjunctival oedema value
- Not available.

Recover days
- Not available.

Respiratory or skin sensitization
- Canada - Alberta OELs: Irritant
  - Glycerol (CAS 56-81-5)
    - Irritant
  - Respiratory sensitization
    - Not a respiratory sensitizer.
  - Skin sensitization
    - This product is not expected to cause skin sensitization.

Mutagenicity
- No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
- See below.
  - Ethanol is not considered to be a carcinogenic component for this product. The product is not an alcoholic beverage for consumption.

- Canada - Manitoba OELs: carcinogenicity
  - Ethanol (CAS 64-17-5)
    - Confirmed animal carcinogen with unknown relevance to humans.

- IARC Monographs. Overall Evaluation of Carcinogenicity
  - Ethanol (CAS 64-17-5)
    - Volume 44, Volume 96, Volume 100E
    - Volume 96, Volume 100E

  - Not listed.

Reproductive toxicity
- This product is not expected to cause reproductive or developmental effects.

Teratogenicity
- Not available.

Specific target organ toxicity - single exposure
- May cause drowsiness and dizziness.

Specific target organ toxicity - repeated exposure
- Not classified.

Aspiration hazard
- Not an aspiration hazard.

Chronic effects
- Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity
- See below
Ecotoxicological data

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethanol (CAS 64-17-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>11744.5 mg/L, 48 Hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Water flea (Daphnia magna)</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>7.7 - 11.2 mg/L, 48 hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Fathead minnow (Pimephales promelas)</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>&gt; 100 mg/L, 96 hours</td>
</tr>
<tr>
<td>Glycerol (CAS 56-81-5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td>Fish</td>
<td>Rainbow trout, donaldson trout (Oncorhynchus mykiss)</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>51000 - 57000 mg/L, 96 hours</td>
</tr>
<tr>
<td>Isopropyl Alcohol (Isopropanol) (CAS 67-63-0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae</td>
<td>IC50</td>
<td>Algae</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>1000 mg/L, 72 Hours</td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>13299 mg/L, 48 Hours</td>
</tr>
<tr>
<td>Fish</td>
<td>LC50</td>
<td>Bluegill (Lepomis macrochirius)</td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td>&gt; 1400 mg/L, 96 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability

No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential

Mobility in soil

No data available.

Mobility in general

Not available.

Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

Transport of Dangerous Goods (TDG) Proof of Classification

Classification Method: Classified as per Part 2, Sections 2.1 – 2.8 of the Transportation of Dangerous Goods Regulations. If applicable, the technical name and the classification of the product will appear below.

U.S. Department of Transportation (DOT)

Basic shipping requirements:

- UN number: UN1219
- Proper shipping name: Isopropanol
- Hazard class: 3
- Packing group: II

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

- UN number: UN1219
- Proper shipping name: ISOPROPANOL
- Hazard class: 3
- Packing group: II
15. Regulatory information

Canadian federal regulations
This product is not subject to the Hazardous Products Act (HPA) Part II (Hazardous Products) as per paragraph 12(j); Schedule 1 (Non-Application of Part II). This restriction states that Part II does not apply in respect of the sale or importation of anything listed in Schedule 1 which includes any pest control product as defined in subsection 2(1) of the Pest Control Products Act, any explosive as defined in section 2 of the Explosives Act, any cosmetic, device, drug or food, as defined in section 2 of the Food and Drugs Act, any consumer product as defined in section 2 of the Canada Consumer Product Safety Act and any wood or product made of wood.

Exempt - Registered product - (NPN 80098375).

Directions of Use:

Adults and children over 2 years: For occasional and personal domestic use. Supervise children when they use this product. Rub thoroughly into hands for at least 30 seconds. Allow to dry.

Medical Ingredients: Isopropyl Alcohol (Isopropanol) - 73% (v/v)
Uses: • Antiseptic skin cleanser • Antibacterial cleanser • Kills harmful bacteria and germs

Warnings: For external use only. When using this product avoid contact with eyes. If contact occurs, rinse thoroughly with water. Stop use and ask a doctor if irritation develops. Keep out of reach of children. If swallowed, call a poison control center or get medical help right away. Flammable! Keep away from open flame and sources of heat.

Non-Medical Ingredients: Water, Glycerine, Methylcellulose, Hydrogen peroxide

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number
Ethanol (CAS 64-17-5) 1 TONNES
Isopropyl Alcohol (Isopropanol) (CAS 67-63-0) 1 TONNES

Export Control List (CEPA 1999, Schedule 3)
Not listed.

Greenhouse Gases
Not listed.

Precursor Control Regulations
Not regulated.

WHMIS 2015 Exemptions
Not applicable

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Isopropyl Alcohol (Isopropanol) (CAS 67-63-0) Listed.

SARA 304 Emergency release notification
Not regulated.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
No

SARA 311/312 Hazardous chemical
Yes

Classified hazard categories
- Flammable (gases, aerosols, liquids, or solids)
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>73</td>
</tr>
</tbody>
</table>

Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

US state regulations
See below

US - California Hazardous Substances (Director's): Listed substance
- Ethanol (CAS 64-17-5) Listed.
- Isopropyl Alcohol (CAS 67-63-0) Listed.

- Ethanol (CAS 64-17-5)
- Isopropyl Alcohol (CAS 67-63-0)

US - Louisiana Spill Reporting: Listed substance
- Ethanol (CAS 64-17-5) Listed.
- Isopropyl Alcohol (CAS 67-63-0) Listed.

US - Minnesota Haz Subs: Listed substance
- Ethanol (CAS 64-17-5) Listed.
- Glycerol (CAS 56-81-5) Listed.
- Isopropyl Alcohol (CAS 67-63-0) Listed.

US - Texas Effects Screening Levels: Listed substance
- Ethanol (CAS 64-17-5) Listed.
- Glycerol (CAS 56-81-5) Listed.
- Isopropyl Alcohol (CAS 67-63-0) Listed.

US. Massachusetts RTK - Substance List
- Ethanol (CAS 64-17-5)
- Glycerol (CAS 56-81-5)
- Isopropyl Alcohol (CAS 67-63-0)

US. New Jersey Worker and Community Right-to-Know Act
- Ethanol (CAS 64-17-5)
- Glycerol (CAS 56-81-5)
- Isopropyl Alcohol (CAS 67-63-0)

US. Pennsylvania Worker and Community Right-to-Know Law
- Ethanol (CAS 64-17-5)
- Glycerol (CAS 56-81-5)
- Isopropyl Alcohol (CAS 67-63-0)

US. Rhode Island RTK
- Ethanol (CAS 64-17-5)
- Glycerol (CAS 56-81-5)
- Isopropyl Alcohol (CAS 67-63-0)

US. California Proposition 65
Not Listed.

Inventory status

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
16. Other information

<table>
<thead>
<tr>
<th>LEGEND</th>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
<th>PERSONAL PROTECTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Severe</td>
<td>4</td>
<td>3</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Serious</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Moderate</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Slight</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimal</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Disclaimer

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Prepared by Dell Tech Laboratories Ltd. Phone: (519) 858-5021
Further information Not available.
Other information For an updated SDS, please contact the supplier/manufacturer listed on the first page of the document.