SAFETY DATA SHEET

Section 1: PRODUCT AND COMPANY IDENTIFICATION
Product name: Molloy’s Surface Sanitizer Orange (Ethyl Alcohol)

Manufacturer or supplier's details
Company name of supplier: Molloy’s Soap
Address: 225 Elgin St. North, Cambridge ON N1R 7H9
Telephone: 226-318-0629
Emergency telephone number: (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

Section 2: HAZARDS IDENTIFICATION
Chemical Name / CAS / Concentration
Ethyl Alcohol / 64-17-5 / 70%
Isopropyl Alcohol / 67-63-0 / 5%

Classification of the mixture
Slight orange color liquid with mild orange and alcohol scent.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHIMIS regulations (Hazardous Products Regulations) (WHMIS 2015).
Hazard classification: Flammable Liquid - Category 3

GHS label elements, including precautionary statements:

Hazard Pictograms

Signal Word: Warning

Hazard statement(s)
- Highly flammable liquid and vapor.
- Causes skin and eye irritation
- May cause respiratory irritation.
- May cause drowsiness of dizziness.
Precautionary Statement(s)

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood
- Keep away from heat, open flames and hot surfaces.
- Keep away from electrical sources including static.
- Do not breathe mist of vapor.

If exposed or concerned: Get medical advice/attention
IF ON SKIN (or hair): Immediately take off all contaminated clothing. Rinse skin with water. Shower if available.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
If eye irritation persists: Get medical advice/attention

Section 3: Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl Alcohol</td>
<td>64-17-5</td>
<td>70</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>67-63-0</td>
<td>5</td>
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</table>

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>CAS#</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water (Aqua)</td>
<td>7732-18-5</td>
<td>22 - 25</td>
</tr>
<tr>
<td>Ethyl Acetate</td>
<td>141-78-6</td>
<td>2 - 2.5</td>
</tr>
<tr>
<td>Orange Essential Oil</td>
<td>8028-48-6</td>
<td>0.6 - 0.8</td>
</tr>
</tbody>
</table>

Section 4: First Aid Measures

**General advice:** In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.

**If inhaled:** If inhaled, remove to fresh air. If symptoms persist, call a physician.

**In case of skin contact:** Wash with water and soap as a precaution. Get medical attention if irritation develops and persists.

**In case of eye contact:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Seek medical advice.
If swallowed: If swallowed, DO NOT induce vomiting. Rinse mouth with water. Obtain medical attention.

Most important symptoms and effects, both acute and delayed: Causes serious eye irritation

Section 5: Fire Fighting Measures

Extinguishing Media:
- Apply alcohol-type or all-purpose-type foams by manufacturers’ recommended techniques for large fires.
- Use carbon dioxide or dry chemical media for small fires.
- Water is generally unsuitable for large open pools of alcohol and may help to spread the fire.

Unusual Fire and Explosion Hazards:
- Vapours form from this product and may travel or be moved by air currents and ignited by pilot lights, other flames, sparks, heaters, electrical equipment, static discharges or other ignition sources at locations distant from the handling point.

Special Fire Fighting Procedures:
- Use water spray to cool fire-exposed containers and structures.
- Use water spray to disperse vapours; reignition is possible.
- Use self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

Spill:
- Contain spilled material.
- Provide adequate ventilation.
- Provide adequate personnel protective equipment for responders.
- Remove sources of heat, sparks or flames.
- Spill should be collected in suitable containers or absorbed on a suitable absorbent material for subsequent disposal. Such containers used to contain spilled material and absorbent should be sealed off, otherwise the collected alcohol will evaporate from them.

Waste Disposal:
- Waste material should be disposed of in an approved incinerator or in a designated landfill site, in compliance with all applicable federal, provincial and local government regulations.

Section 7: Handling & Storage

Avoid sources of ignition, spark, flame.
Store at temperatures below 35 degrees celsius or 95 degrees fahrenheit.
Section 8: Exposure Control / Personal Protection

Respiratory Equipment
- Up to 1000 ppm, an approved organic vapour cartridge respirator can be used.
- For concentrations above 1000 ppm, an air-supplying respirator is recommended.
- The user should consult a respirator guide, such as the Canadian Standards Association's guide Z94.4-M1982.

Ventilation
- The ventilation system should be non-sparking, grounded and separate from other exhaust ventilation systems.
- Local ventilation is recommended when handling.

Protective Gloves
- Neoprene, butyl or natural rubber.
- Eye Protection
- Chemical resistant monogoggles when handling

Other Protective Equipment
- Eye bath, safety shower and other protective equipment as required.

Section 9: Physical and Chemical Properties

Physical State: Slight orange liquid
Melting/Freezing Point: Not Determined
Boiling Point: Not Determined
Solubility in Water: Soluble
pH: Not Applicable
Flash Point: 13 (Tag closed cup, ASTM D-56)
Vapour Pressure: Not Determined
Density @ 20 0C: <1.0g/mL
Self-Ignition Temperature: Not Determined
Evaporation Rate: Not Determined

Section 10: Stability and Reactivity

Chemical stability/reactivity: Stable
Conditions to Avoid: Sources of ignition
Possibility of hazardous reactions/incompatibilities: Oxidizing materials
Hazardous Combustion or Decomposition Products: Burning can produce carbon monoxide and/or carbon dioxide and/or formaldehyde.
Hazardous Polymerization: Will not occur
Conditions to Avoid: None currently known
Section 11: Toxicological Information

Ingestion:
- May cause dizziness, faintness, drowsiness, decreased awareness and responsiveness, euphoria, abdominal discomfort, nausea, vomiting, staggering gait, lack of coordination and coma.

Skin Absorption:
- No adverse effects with normal skin.
- However potentially harmful amounts of material may be ab-sorbed across markedly abraded skin when contact is sustained particularly in children.

Inhalation:
- High vapour concentrations may cause a burning sensation in the throat and nose, stinging and watering in the eyes. At concentrations which cause irritation, dizziness, faintness, drowsiness, nausea and vomiting may occur.

Skin Contact:
- No evidence of adverse effects from available information.

Eye Contact:
- Severe eye irritant.
- Vapours can irritate eyes. Eye damage from contact with liquid is reversible and proper treatment will result in healing within a few days.
- Damage is usually mild to moderate conjunctivitis, seen mainly as redness of the conjunctiva.

Effects of Repeated Overexposure:
- Long term repeated oral exposure to ethanol may result in the development of progressive liver injury with fibrosis.
- Long term exposure to methanol has been associated with headaches, giddiness, conjunctivitis, insomnia and impaired vision
- Ethyl acetate is of relatively low toxicity.

Medical Conditions Aggravated By Overexposure
- Repeated exposure to ethanol may exacerbate liver injury from other causes.

OTHER—REPRODUCTIVE TOXICITY OF ETHANOL WHEN CONSUMED AS A BEVERAGE DURING PREGNANCY
- Ethanol has been identified in studies as a developmental toxicant when consumed as a beverage during pregnancy.

Section 12: Ecological Information

General Advice: None
Persistence/Degradability: Not Determined
Behaviour in Water Treatment Plants: Not Determined
Section 13: Disposal Considerations

Dispose of according to local, state/provincial, and federal regulations. Incinerate in the appropriate centre.

Section 14: Transport Information

Product Classified as Hazardous for Transportation: YES
DOT (49 CFR Information)
DOT Shipping Name: Ethyl Alcohol Solutions
DOT Hazard Class(es): 3
Product Identifications: UN 1987

Section 15: Regulatory Information

EC Classification and Labeling: Not Applicable
Symbol: Not Determined
Risk Phrase: (per Label) Flammable, keep away from flames
Safety Advice: (per Label) When using this product keep away from eyes. Stop using this product: If skin irritation and redness develop. If condition persists for more than 72 hours, consult a physician.
For External Use Only
Keep product away from children. If swallowed contact Poison Control immediately.

Section 16: Other Information

General Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Date of the previous revision: Not applicable
Date of this revision: 15 April 2020
Revision summary: The first new SDS