St. Joseph on the Brandywine
Cleaning and Disinfecting
Process for Church and Hall
During Covid-19

1. All of the high touch surface areas in the church (this includes but is not limited to the hardware on the doors, the rail top of the pews, the ends and entrances to the pews, the rail along the walls of the stained glass windows, and the bathroom) are first wiped down with CaviWipes a hospital grade disinfectant and cleaning wipe. Cavicide, the disinfectant that the wipes carry contains Water, Isopropanol, Ethylene Glycol Monobutyl Ether (2- Butoxyethanol), and Diisobutylphenoxyethoxyethyldimethylbenzyl ammonium chloride.

2. The previously wiped surfaces are then sprayed with IS2-Natural 81% Alcohol Disinfectant. The CDC recommends at least 70% alcohol to disinfect. IS2-Natural 81% Alcohol Disinfectant contains Ethyl Alcohol, Water, Hydrogen Peroxide, and Isopropyl Alcohol.

3. Then once a week after the Masses for both the church and the hall, Patrick Garrett, owner/independent contractor of FaciliCare does a deep cleaning of all of those two facilities and then disinfects them as follows: sprays and wipes clean all high-contact areas (light switches, door handles, sink knobs, toilet handles, drawer handles, etc.) with disinfectant and sprays all high-contact and surface areas (seats, pews, table tops, countertops, etc.) with disinfectant to air dry. The disinfectant product used is Nu-Foamicide.

- IS2 Natural RTU Disinfectant Safety Data Sheet (within document)
**Product Name:** CaviWipes

**Product Description Form:** Hard surface cleaner and disinfectant

**Application:** All fill sizes, see [www.metrex.com](http://www.metrex.com) for catalogue numbers and safety data sheets.

**Company:** METREX® RESEARCH  
28210 Wick Rd.  
Romulus, MI 48174  
U.S.A.  
1-800-841-1428

**Date of Disclosure**  
March 4, 2020

**Ingredients**

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS</th>
<th>Present on Designated List</th>
<th>Function (HCPA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>No</td>
<td>Solvent</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>67-63-0</td>
<td>No</td>
<td>Solvent / active ingredient</td>
</tr>
<tr>
<td>Ethylene Glycol Monobutyl Ether</td>
<td>111-76-2</td>
<td>CA TACS</td>
<td>Solvent</td>
</tr>
<tr>
<td>Diisobutylphenoxethoxyethyl dimethyl benzyl ammonium chloride</td>
<td>121-54-0</td>
<td>No</td>
<td>Active ingredient</td>
</tr>
<tr>
<td>Surfactant</td>
<td>With held for CBI</td>
<td>No</td>
<td>Cleaner</td>
</tr>
<tr>
<td>Surfactant</td>
<td>With held for CBI</td>
<td>EU Endocrine Disruptors (non human), Marine Priority Action Chemical</td>
<td>Cleaner</td>
</tr>
<tr>
<td>Sodium Hydroxide</td>
<td>1310-73-2</td>
<td>No</td>
<td>pH adjustment</td>
</tr>
</tbody>
</table>

**Contact for Additional Ingredient Information**

**Links**

CA TACS [https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants](https://ww2.arb.ca.gov/resources/documents/carb-identified-toxic-air-contaminants)


Marine Priority Action Chemical [https://www.ospar.org/work-areas/hasec/chemicals/priority-action]
SECTION 1: CHEMICAL AND MANUFACTURER IDENTIFICATION

Product Name: IS2-Natural RTU Disinfectant  
Product Code: HP4ETH81 (99990359) v2.0

IS2 LLC  
7299 Lancaster Pike  
Suite 4-327  
Hockessin, DE 19707  
(302) 379-1265  
E-mail: is2orders@gmail.com

24 Hour Emergency: 302-379-1265
Outside U.S. and Canada: 302-379-1265
INFOTRAC Customer ID: 72826

NOTE: INFOTRAC and National Response Center emergency numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

Not recommended for:
Because many of the conditions are within the user's knowledge and control, it is essential that the user evaluate and determine whether the product is suitable and appropriate for a particular use and intended application, and complies with all local applicable laws, regulations, standards, and guidance.

SECTION 2: HAZARD(S) IDENTIFICATION

Prepared according to Global Harmonized System (GHS) Standards

GHS Classification Scale  
1=Severe Hazard; 4=Slight Hazard

GHS Ratings:  
Flammable liquid  2  
Eye corrosive  2A  
Organ toxin single exposure  3  
Flash point < 23°C and initial boiling point > 35°C (95°F)  
Eye irritant: Subcategory 2A. Reversible in 21 days  
Transient target organ effects- Narcotic effects- Respiratory tract irritation

GHS Hazards:  
H225  Highly flammable liquid and vapor  
H319  Causes serious eye irritation  
H335  May cause respiratory irritation  
H336  May cause drowsiness or dizziness

GHS Precautions  
[Prevention]:  
P210  Keep away from heat, sparks, open flames and hot surfaces. No smoking!  
P233  Keep container tightly closed  
P240  Ground / bond container and receiving equipment  
P241  Use explosion-proof electrical, ventilating, lighting equipment  
P242  Use only non-sparking tools  
P243  Take precautionary measures against static discharge  
P260  Do not breathe mist or spray
P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P294 Wash thoroughly after handling
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves, protective clothing, eye protection, face protection

[Response]:
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Stay at rest.
P303+P361+P333 IF ON SKIN (or hair): Remove / Take off all contaminated clothing immediately. Rinse skin thoroughly with water / shower
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338 IF IN EYES: Rinse continuously with cool water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician
P363 Wash contaminated clothing before reuse
P337+P313 If eye irritation persists get medical advice / attention
P370+P378 In case of fire: Use dry chemical / CO2 / foam for extinction

[Storage]:
P405 Store locked up
P403+P233 Store in a well ventilated area. Keep container tightly closed.
P403+P281 Store in a well ventilated area. Keep cool

[Disposal]:
P501 Dispose of contents / container to an approved waste disposal facility

Signal Word: Danger

---

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol</td>
<td>64-17-5</td>
<td>70.00% - 73.00%</td>
<td></td>
</tr>
<tr>
<td>Water</td>
<td>7732-16-5</td>
<td>21.00% - 29.00%</td>
<td></td>
</tr>
<tr>
<td>Hydrogen peroxide*</td>
<td>7722-84-1</td>
<td>0.50% - 0.70%</td>
<td>Ox. Lis. 1; H271</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4; H332</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4; H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Core. 1A; H314</td>
</tr>
<tr>
<td>Isopropyl alcohol</td>
<td>67-63-0</td>
<td>0.00% - 3.6%</td>
<td></td>
</tr>
<tr>
<td>Biodegradable Surfactant</td>
<td>Proprietary**</td>
<td>&lt; 1.00%</td>
<td></td>
</tr>
</tbody>
</table>

*RTU active ingredient is slightly more than hand sanitizer for disinfecting.
**Ready-To-Use (RTU) may contain aloe, citrus essential oil, and surfactant.

SECTION 4: FIRST AID MEASURES

Inhalation: Move affected person to fresh air. If breathing has stopped, administer CPR. If the person vomits, clean the airway and turn their head to the side to prevent choking. If the person is unconscious but breathing, place them stably on their left side in the recovery position. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

SDS for: HP4ETH81

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Eyes: Immediately flush eyes gently with clean water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, seek immediate medical attention.

Skin: If on skin: No emergency care anticipated. No evidence of adverse effects based on available information. May cause mild irritation. Contact may cause: cracking, drying, redness. Wash off with soap and water. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water to remove any residual chemical. If the person vomits, clean their airway and turn their head to the side to prevent choking. DO NOT induce vomiting and DO NOT give them anything to drink unless directed to do so by a physician. If the person is unconscious but breathing, place them stably on their left side in recovery position. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional Notes to Physician: Treat symptomatically. No specific antidote available.

Most important symptoms/effects, acute and delayed: Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

SECTION 5: FIREFIGHTING MEASURES

Flash Point: 12°C (54°F)  LEL: 3.0%  UEL: N/A

Suitable Extinguishing Media:
- Foam
- Carbon Dioxide (CO2)
- Dry Chemical

Specific Hazards During Firefighting: Prevent firefighting run-off from entering drains or sewers.

Byproducts of Combustion: Fires involving this product may release oxides of carbon and nitrogen, reactive hydrocarbons, and irritating vapors.

Unusual Fire and Explosion Hazards: Any closed container may rupture when exposed to extreme heat. Use a water spray to cool sealed containers. Solvent vapors are heavier than air and can travel along the ground.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill / Leak Clean-Up Procedures:

Never return spills to original containers for re-use. Immediately turn off or isolate any source of ignition (pilot lights, electrical equipment, flames, heaters, etc.). Evacuate area and ventilate. Personnel wearing proper protective equipment should contain spill immediately with inert materials (sand, earth, chemical spill pads of cotton) by forming dikes. Dikes should be placed to contain spill in a manner that will prevent material from entering sewers and waterways. Large spills, once contained, may be picked up using explosion proof, non-sparking vacuum pumps, shovels, or buckets, and disposed of in suitable containers. If a large spill occurs notify the appropriate authorities.

In case of road spill or accident contact 302-379-1265.

CAUTION: If spilled material is cleaned up using a regulated solvent, the resulting waste mixture will also be regulated.

Do not empty into drains. All disposal must comply with federal, state, and local regulations. The material, if spilled or discarded, may be a regulated waste. Refer to state and local regulations. Department of Transportation (DOT) regulations may apply for transporting this material when spilled. See Section 14.
SECTION 7: HANDLING AND STORAGE

Handling Precautions:

Open containers carefully and in a well ventilated area, and use appropriate respiratory protection. Wash hands thoroughly after handling. Keep containers closed when not in use. Do not transfer to unmarked containers. Empty containers contain product residue which may exhibit hazardous properties therefore, do not pressurize, cut, glaze, weld or use for any other purpose. Return drums to reclamation center for proper cleaning and reuse.

Storage Requirements:

Store in a cool, dry, well ventilated area. Keep containers tightly closed and store away from heat, sparks, open flame or oxidizing materials. Extended storage at excessive temperatures may produce odorous and toxic fumes from product decomposition.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA Exposure Limits</th>
<th>ACGIH Exposure Limits</th>
<th>Other Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl alcohol 64-17-5</td>
<td>1000 ppm TWA; 1900 mg/m^3 TWA</td>
<td>1000 ppm STEL</td>
<td>NIOSH: 1000 ppm TWA; 1900 mg/m^3 TWA</td>
</tr>
<tr>
<td>Water 7732-18-5</td>
<td>Not Established</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
<tr>
<td>Hydrogen peroxide 7722-84-1</td>
<td>1 ppm TWA; 1.4 mg/m^3 TWA</td>
<td>1 ppm TWA</td>
<td>NIOSH: 1 ppm TWA; 1.4 mg/m^3 TWA*</td>
</tr>
<tr>
<td>Isopropyl alcohol 67-63-0</td>
<td>400 ppm TWA; 880 mg/m^3 TWA</td>
<td>400 ppm STEL; 200 ppm TWA</td>
<td>NIOSH: 400 ppm TWA; 980 mg/m^3 TWA; 500 ppm STEL; 1225 mg/m^3 STEL</td>
</tr>
</tbody>
</table>

*PELS are 8 hour TWAs, US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Carcinogen Data

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>OSHA</th>
<th>NTP</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide 7722-84-1</td>
<td>Select Carcinogen: No</td>
<td>Known: No; Suspected: No</td>
<td>Group 1: No; Group 2a: No; Group 3: Yes; Group 4: No</td>
</tr>
</tbody>
</table>

Engineering Controls: Avoid creating dust or mist. Local exhaust ventilation, process enclosures, or other engineering controls are required when handling or using this product to avoid over exposure. Use explosion-proof ventilation equipment. Do not use in closed or confined spaces. Keep all levels below exposure limits. Perform regular monitoring to ensure exposure limits are not exceeded.

Personal Protective Equipment (PPE):

Respiratory Protection - Do not breathe vapors. When concentrations exceed the established limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA) until vapors are exhausted. Observe OSHA standard 29 CFR 1910.134 and ANSI Z88.2 requirements whenever workplace conditions require a respirators use.

Hand Protection/Skin Protection - Material is not considered a skin contact hazard.
**Eye Protection** - Not required for normal use. If splashing of liquid may occur, then wear a face shield. Use additional eye protection such as chemical safety goggles when the possibility for eye contact from splashing, spraying liquid, or airborne material exists. When handling large quantities, eye wash stations and deluge showers should be available.

**Hygiene Measures:**

**General** - When using do not eat or drink. Wash hands with soap and water before breaks and at the end of each workday. Routinely wear work clothing and protective equipment to remove contaminants.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

This mixture typically exhibits the following properties under normal circumstances:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Translucent Colorless/Slight Yellow Liquid Dispersion</td>
</tr>
<tr>
<td>Odor</td>
<td>Alcohol, Citrus</td>
</tr>
<tr>
<td>Odor threshold</td>
<td>Not Measured</td>
</tr>
<tr>
<td>pH</td>
<td>6.3</td>
</tr>
<tr>
<td>Melting point / Freezing point</td>
<td>Not Available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>78 - 100°C</td>
</tr>
<tr>
<td>Flash point:</td>
<td>12°C, 54°F</td>
</tr>
<tr>
<td>Lbs VOC/Gallon Less Water</td>
<td>6.61</td>
</tr>
<tr>
<td>g VOC/L Less Water</td>
<td>792.27</td>
</tr>
<tr>
<td>Evaporation Rate (Butyl Acetate = 1)</td>
<td>&gt;1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Lower Explosive Limit: 3.3 (100% Ethanol)</td>
</tr>
<tr>
<td></td>
<td>Upper Explosive Limit: 19.0 (100% Ethanol)</td>
</tr>
<tr>
<td>Vapor Pressure (Pa)</td>
<td>23 mmHg</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>1.6 (100% Ethanol)</td>
</tr>
<tr>
<td>Specific Gravity (H2O = 1)</td>
<td>0.848</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Complete</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water (Log Kow)</td>
<td>-0.32 (100% Ethanol)</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>400°C (100% Ethanol)</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>Not Measured</td>
</tr>
<tr>
<td>Viscosity (Cp)</td>
<td>1.0 (100% Ethanol)</td>
</tr>
<tr>
<td>Heavy Metals</td>
<td>5 ppm maximum</td>
</tr>
<tr>
<td>Limit of Preservative</td>
<td>NMT 50 mg</td>
</tr>
</tbody>
</table>
SECTION 10: STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage, and transport.
Chemical stability: Material is stable under normal conditions.
Possible hazardous reactions: No dangerous reaction known under conditions of normal use.
Conditions to avoid: Contact with incompatible materials. Do not mix with other chemicals.
Incompatible materials: Strong oxidizing agents.
Hydrogen peroxide can break down from contact with strong alkalis, bleach, iron oxides (e.g. rust), inorganic acid chlorides, reducing agents, and aluminum.
100% ethanol reacts slowly with calcium hypochlorite, silver oxide, and ammonia. 100% ethanol reacts violently with strong oxidants such as nitric acid, silver nitrate, mercuric nitrate, and magnesium perchlorate. These conditions generate fire and explosion hazards.
Fire Prevention: NO open flames, NO sparks and NO smoking. Do NOT use compressed air for filling, discharging, or handling.

Hazardous polymerization will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Toxicity

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Oral LD50 (mg/kg)</th>
<th>Skin LD50 (mg/kg)</th>
<th>Inhalation Vapor LD50 (mg/L/4hr)</th>
<th>Inhalation Dust/Mist LD50 (mg/L/4hr)</th>
<th>Inhalation Gas LD50 (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrogen peroxide 7722-84-1</td>
<td>801.00, Rat - Category: 4</td>
<td>2,000.00, Rat - Category: 4</td>
<td>2.00, Rat - Category: 2</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Mixture Toxicity:
Inhalation Toxicity LC50: 193mg/L
Note - Toxicological studies have not been performed on this mixture. The toxicological data listed is compiled using data from the components of the mixture. Refer to Section 2 of this SDS for GHS classification of acute and chronic effects of exposure.

Principle Routes of Exposure:
Inhalation  Skin Contact  Eye Contact  Ingestion

May cause damage to the following organs:
Blood  Eyes  Liver  Central Nervous System  Reproductive System  Skin  Respiratory System

Carcinogenicity: The following chemicals comprise 0.1% or more of this mixture and are listed and/or classified as carcinogens or potential carcinogens by NTP, IARC, OSHA (mandatory listing) or ACGIH (optional listing):

<table>
<thead>
<tr>
<th>CAS Number</th>
<th>Description</th>
<th>% Weight</th>
<th>Carcinogen Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>64-17-5</td>
<td>Ethyl alcohol</td>
<td>70% - 82%</td>
<td>IARC: Human carcinogen  OSHA: Listed</td>
</tr>
</tbody>
</table>

Occupational Exposure Limits:
TLV: 1000 ppm as STEL; A3 (confirmed animal carcinogen with unknown relevance to humans).
MAK: 380 mg/m3, 200 ppm; peak limitation category: II(4); carcinogen category: 5; pregnancy risk group: C; germ cell mutagen group: 5

SECTION 12: ECOLOGICAL INFORMATION

Environmental effects of the substance have been adequately investigated, but no significant effects have been found.
12.1 Component Ecotoxicity

Ethyl alcohol
(64-17-5)
96 Hr LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static];
96 Hr LC50 Pimephales promelas: >100 mg/L [static];
96 Hr LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through];
48 Hr LC50 Daphnia magna: 9268 - 14221 mg/L;
48 Hr EC50 Daphnia magna: 2 mg/L [Static]

Isopropyl alcohol
(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 Lapemis macrochirus: >1400000 μg/L
48 Hr EC50 Daphnia magna: 13299 mg/L
96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L;
72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L

Hydrogen peroxide
(7722-84-1)
96 Hr LC50 Pimephales promelas: 16.4 mg/L;
96 Hr LC50 Lapemis macrochirus: 18 - 56 mg/L [static];
96 Hr LC50 Oncorhynchus mykiss: 10.0 - 32.0 mg/L [static]
48 Hr EC50 Daphnia magna: 18 - 32 mg/L [Static]
72 Hr EC50 algae, mg/L Microcystis pulv reactor, Incerta: 0.71

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available.

12.5 Results of PBT and vPvB assessment: This product contains no PBT/vPvB chemicals.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not discharge product into sewer system. Dispose of in a licensed facility. Waste management should be in full compliance with federal, state, and local laws.

The transportation, storage, treatment and disposal of RCRA waste material must be conducted in compliance with 40 CFR 262, 263, 264, 265 and 270. Chemical additions, processing, or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate.

SECTION 14: TRANSPORT INFORMATION

This material is classified for transport as follows:

<table>
<thead>
<tr>
<th>Agency</th>
<th>Proper Shipping Name</th>
<th>UN Number</th>
<th>Packing Group</th>
<th>Hazard Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. DOT</td>
<td>ETHANOL SOLUTIONS</td>
<td>1170</td>
<td>II</td>
<td>3</td>
</tr>
</tbody>
</table>

SECTION 15: REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA): All components of this material are either listed or except from listing on the TSCA Inventory.
WHMIS Classification: D2B E

US EPA Tier II Hazards:
- Fire: Yes
- Sudden Release of Pressure: No
- Reactive: No
- Immediate (Acute): Yes
- Delayed Chronic: No

EPCRA 311/312 Chemicals and PQs: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous: Hydrogen peroxide

EPCRA 313 Toxic Chemicals: To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

State of California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) WARNING! This product contains the following substance(s) which are listed by the State of California as carcinogenic, or a reproductive toxin:
- 64-17-5 Ethyl alcohol Carcinogen

Clean Air Act, Section 112, Hazardous Air Pollutants (HAPs) (see 40 CFR 61) This product contains the following substance(s) which are listed as hazardous air pollutants (HAPs) per the Clean Air Act:
- None

Massachusetts Right To Know (>1%) This product contains the following toxic or hazardous substance(s) which appear on the Massachusetts Substance List:
- 64-17-5 Ethyl alcohol
- 67-63-0 Isopropyl alcohol
- 7722-84-1 Hydrogen peroxide

New Jersey Worker and Community Right to Know Hazardous Substance List (>1%) The following substance(s) appear on the New Jersey Right to Know Hazardous Substance List:
- 64-17-5 Ethyl alcohol
- 67-63-0 Isopropyl alcohol
- 7722-84-1 Hydrogen peroxide

Commonwealth of Pennsylvania Worker and Community Right To Know Act (>1%) This product contains the following substance(s) which appear on the Pennsylvania Hazardous Substance List:
- 64-17-5 Ethyl alcohol
- 67-63-0 Isopropyl alcohol
- 7722-84-1 Hydrogen peroxide

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) This product contains a chemical or chemicals which are subject to the reporting requirements of the Act, and Title 40, of the Code of Federal Regulations, part 372:
- 67-63-0 Isopropyl alcohol

<table>
<thead>
<tr>
<th>Country</th>
<th>Regulation</th>
<th>All Components Listed</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australian</td>
<td>Australian Inventory of Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td>Japan</td>
<td>Existing and New Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances Produced or Imported in China</td>
<td>No</td>
</tr>
<tr>
<td>New Zealand</td>
<td>Inventory of Chemicals</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances</td>
<td>No</td>
</tr>
<tr>
<td></td>
<td>Reach PBT/VPvB</td>
<td>No</td>
</tr>
</tbody>
</table>
SECTION 16: OTHER INFORMATION

This is the first version in the GHS SDS format. Listing of changes from previous versions in other formats are not applicable.

Disclaimer: The Volatile Organic Compound (VOC) content reported herein, if any, is based on a material VOC calculation. Several methods are used for the calculation of VOC content, and the standards and requirements regarding VOC content vary by location or jurisdiction.

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The contents of the SDS are believed to be correct, but do not purport to be all-inclusive and should only be used as a guide. 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. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release. IS2 LLC disclaims any expressed or implied warranty as to the accuracy of the above information and shall not be held liable for any direct, incidental or consequential damages resulting from the reliance on the above information.

End of Document

Revision Notes:

Updated: 6/9/2020

Reviewer Revision
Safety Data Sheet (SDS)

Issue date 07/11/2017

Product Identifier:
- Trade name: Nu-Foamicide M-8507
- Relevant identified uses of the substance or mixture and uses advised against:
  - For cleaning/sanitizing food contact areas, hard surfaces and kitchenware.
- Product Description
  - Cleaner/Degreaser/Detergent/Food Contact Sanitizer/Residue for restaurant, bar and institutional use.
- Application of the substance / the mixture: Diluted 4-8 oz per gallon of water.

Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier:
  - Giesen Chemical Company, Inc.
  - 1321 50th Street
  - Brooklyn, NY 11219
  - Tel: 718-435-4200
  - Fax: 718-851-2038
  - www.giesenchem.com

- Emergency telephone number:
  - Illinois Poison Control Center
  - 1-800-722-7888

Classification of the substance or mixture:

- GHS07
- Eye Irrit. 2A
- H319 Causes serious eye irritation.
- Aquatic Acute 3
- H402 Harmful to aquatic life.
- Aquatic Chronic 3
- H412 Harmful to aquatic life with long lasting effects.

Label elements:
- GHS label elements
The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:

Signal word: Warning
- Hazard statements:
  - H319 Causes serious eye irritation.
  - H402 Harmful to aquatic life.
  - H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
- P304 Wash thoroughly after handling.
- P273 Avoid release to the environment.

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Safety Data Sheet (SDS)

Issue date: 07/11/2017
Reviewed on: 07/11/2017

Trade name: Nu-Foamicide M-8607

P280 Wear eye protection / face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P315 If eye irritation persists: Get medical advice/attention.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

- NFPA ratings (scale 0 - 4)
  - Health = 1
  - Fire = 0
  - Reactivity = 0

- HMIS-ratings (scale 0 - 4)
  - Health = 1
  - Fire = 0
  - Reactivity = 0
  - Physical Hazard = 0

-Hazard(s) not otherwise classified (HNOC): None known

Chemical characterization: Mixtures
Description: Mixture of substances listed below with non-hazardous additions.

Dangerous Components:
- CAS: 54-02-8 Tetradsodium EDTA
- PTECS: AH 5075000
- CAS: 86436-23-8 C12-C14-Alkyl(ethyl/tertary)dimethylammonium chloride
- CAS: 218-614-1 Eye Dam. 1, H318; Acute Tox. 4, H302
- CAS: 218-614-1 Skin Corr. 1B, H314; Eye Dam. 3, H318; Acute Tox. 1, H400
- Aquatic Chronic 1, H412; Acute Tox. 4, H302; Acute Tox. 4, H312
- Proprietary%

Description of first aid measures:

After inhalation:
Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. If case of unconsciousness place patient stably in side position for transportation.

After skin contact:
Generally the product does not irritate the skin. Immediately rinse with water. If skin irritation occurs, consult a doctor.

After eye contact:
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

After swallowing:
Rinse out mouth and then drink plenty of water. Do not induce vomiting. If symptoms develop and/or persist, seek medical attention.

Information for doctor:

Most Important symptoms and effects, both acute and delayed: No further relevant information available. (Contd. on page 3)
Trade name: Nu-Foamicide M-8507

Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

Extinguishing media:
Suitable extinguishing agents: CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Special hazards arising from the substance or mixture:
Inhaling fumes of the product will release the following toxic fumes: OXides of Carbon and Nitrogen (NOₓ) and Hydrochloric acid gas.

Advice for firefighters:
As in any fire, wear self-contained breathing apparatus (positive pressure demand, NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

Personal precautions, protective equipment and emergency procedures:
Ensure adequate ventilation. Avoid contact with skin, eyes and clothing.

Environmental precautions:
If disposed of in the environment, prevent from entering surface or ground water.

Methods and material for containment and cleaning up:
Absorb with liquid-binding material (e.g. sand, diatomite, acid binders, universal binders, sawdust).

Disposal of the collected material according to regulations.

Reference to other sections:
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

Handling and storage:

Precautions for safe handling: No special precautions are necessary if used correctly.

Information about protection against reactivity or fire: No special measures required.

Conditions for safe storage, including any incompatibilities: Store away from strong oxidizing agents.

Storage:
Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep receptacle tightly sealed.

Specific end use(s): No further relevant information available.

Additional Information about design of technical systems: No further data; see section 7.

Control parameters:
All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas. Use appropriate ventilation as required to keep exposure limits in air below TLV & PEL limits.

(Cont'd. on page 4)
Trade name: Nu-Foamicide M-8507

- **Components with occupational exposure limits:** The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

- **Exposure controls:**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:** The usual precautionary measures for handling chemicals should be followed.
    - **Emergency procedures:** Keep away from foodstuffs, beverages and feed.
    - **First aid measures:** Immediately remove all soiled and contaminated clothing and wash before reuse.
    - **Handling and storage:** Wash hands before breaks and at the end of work.
    - **Precautions for parents at home:** Avoid contact with the eyes and skin.
  - **Breathing equipment:** Not required.
  - **Protective of hands:** Not required.
  - **Material of gloves:** Not required.
  - **Penetration time of glove material:** Not applicable.
  - **Eye protection:** Goggles recommended during refilling.
  - **Body protection:** Not required.

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>General information</strong></td>
</tr>
<tr>
<td><strong>Appearance:</strong></td>
</tr>
<tr>
<td>Form: Liquid</td>
</tr>
<tr>
<td>Color: Clear, light red</td>
</tr>
<tr>
<td>Odor: Mild</td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
</tr>
<tr>
<td>pH-value @ 20 °C (68 °F): 10.0-10.2</td>
</tr>
<tr>
<td>Change in condition</td>
</tr>
<tr>
<td>Melting point/Melting range: Not determined.</td>
</tr>
<tr>
<td>Boiling point/Boiling range: 100 °C (212 °F)</td>
</tr>
<tr>
<td>Flash point: None</td>
</tr>
<tr>
<td>Flammability (solid, gaseous): Not applicable.</td>
</tr>
<tr>
<td>Ignition temperature:</td>
</tr>
<tr>
<td>Decomposition temperature: Not determined.</td>
</tr>
<tr>
<td>Auto-igniting: Product is not self-igniting.</td>
</tr>
<tr>
<td>Danger of explosion:</td>
</tr>
<tr>
<td>Product does not present an explosion hazard.</td>
</tr>
<tr>
<td>Explosion limits:</td>
</tr>
<tr>
<td>Lower: Not determined.</td>
</tr>
</tbody>
</table>
Trade name: Nu-Foamicide M-8507

Vapor pressure: Not determined.

Density (g) 20 °C (68 °F): 1.001 g/cm³ (8.353 lbs/gal)

Relative density: Not determined.

Vapor density: Not determined.

Evaporation rate: Not determined.

solubility in / Miscibility with:
- Water: Not miscible or difficult to mix.
- Partition coefficient (n-octanol/water): Not determined.

Viscosity:
- Dynamic: Not determined.
- Kinematic: Not determined.

Solvent content:
- Organic solvents: 0.2 %
- Water: 99.2 %
- VOC content: 0.2 %
- Solids content: 2.1 %

Other information: No further relevant information available.

Reactivity:
- No further relevant information available.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions: No dangerous reactions known.
- Conditions to avoid: No further relevant information available.
- Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: Oxides of Carbon and Nitrogen (NOx) and Hydrochloric acid gas.

Information on toxicological effects:

Acute toxicity:
- LD/LC50 values that are relevant for classification:
  - Oral LD50: 650-1250 mg/kg (Rat)
  - Tetrasodium EDTA

Primary irritant effect:
- On the skin: No irritating effect.
- On the eye: Irritating effect.

Additional toxicological information:
The product shows the following dangers according to internally approved calculation methods for preparations:
- Irritant

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Safety Data Sheet (SDS)

Trade name: No-Foamicide M-8507

- Carcinogenic categories:
  - IARC (International Agency for Research on Cancer):
    Group 1 - Carcinogenic to humans
    Group 2A - Probably carcinogenic to humans
    Group 3 - Possibly carcinogenic to humans
  - Group 4 - Not classifiable as to its carcinogenicity to humans
  - None of the ingredients are listed.

- NTP (National Toxicology Program):
  - None of the ingredients are listed.

- C5: A-Ca (Occupational Safety & Health Administration):
  - None of the ingredients are listed.

- Ecological Information:
  - Toxicity: The hazards for the aquatic environment are unknown.
  - Aquatic toxicity:
    Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.
  - Persistence and degradability: No further relevant information available.
  - Behavior in environmental systems:
    - Bioaccumulative potential: No further relevant information available.
    - Mobility in soil: No further relevant information available.
  - Ecotoxicological effects:
  - Remark: Harmful to fish
  - Additional ecological information:
    - General notes:
      Do not allow product to reach ground water, water course or sewage system.
      Danger to drinking water if even small quantities leek into the ground.
      Harmful to aquatic organisms
    - Results of PBT and vPvB assessment:
      - PBT: Not applicable.
      - vPvB: Not applicable.
  - Other adverse effects: No further relevant information available.

- Disposal and treatment:
  - Waste treatment methods:
    - Recommendation:
      Small amounts may be diluted with plenty of water and washed away. Disposal of bigger amounts in accordance with Local Authority requirements.
      Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
      Observe all federal, state and local environmental regulations when disposing of this material.
  - Undefended packagings
    - Recommendation:
      Dispose of as unused product.
      Observe all federal, state and local environmental regulations when disposing of this material.

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Safety Data Sheet (SDS)

Issue date 3/7/2017
Reviewed on 9/4/2017

Trade name: Nu-Poemide M-8807

UN-Number: (Not required)
DOT, ADR/ADN, ADN, IMDG, IATA: Non-Regulated Material

UN proper shipping name: (Not required)
DOT, ADR/ADN, ADN, IMDG, IATA: Non-Regulated Material
Transport hazard class(es): (Not required)
DOT, ADR/ADN, ADN, IMDG, IATA: Non-Regulated Material

UN Class: (Not required)
Packing group: (Not required)
DOT, ADR/ADN, ADN, IMDG, IATA: Non-Regulated Material
Environmental hazards: Not applicable.
Special precautions for user: Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.
UN "Model Regulation": Non-Regulated Material

Safety, Health, and Environmental Regulations/Legislation Specific for the Substance or Mixture:

Section 353 (Extremely Hazardous Substances):
None of the ingredients are listed.

Section 313 (Specific Toxic Chemical Listings):
None of the ingredients are listed.

TSCA (Toxic Substances Control Act):
644-52-8 Tetrasodium EDTA
127097-06-9 Nonylphenol Polyethylene Ethoxylate
68331-01-5 C12-C16 alkyl benzyl dimethyl ammonium chloride
457-99-8 Sodium carbonate
64-17-5 Ethanol
68931-04-8 ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE (C12-18)
7352-78-5 Water, distilled water, deionized water

California Proposition 65:
None of the ingredients are listed.

Chemicals known to cause cancer:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:
None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:
None of the ingredients are listed.

Chemicals known to cause developmental toxicity:
64-17-5 Ethanol

(Cont'd. on page 8)
Trade name: Nu-Foamicide M-3507

Carcinogenicity categories:
EPA (Environmental Protection Agency):
None of the ingredients are listed.

TLV *(Threshold Limit Value established by ACGIH):
84.17-6 Ethanol A3

NIOSH- Ca (National Institute for Occupational Safety and Health):
None of the ingredients are listed.

GHS label elements:
The product is classified and labeled according to the Globally Harmonized System (GHS).

GHS pictograms:

Signal word: Warning

Precautionary statements:
P233 Causes serious eye irritation.
P261 Avoid prolonged or repeated skin contact.
P303+P313 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P351+P338 If on skin: Wash with plenty of water for several minutes.

National regulations:
None of the ingredients are listed.

Chemical safety assessment: A Chemical Safety Assessment has not been conducted.

Other information:

Date of preparation / Last revision: 07/11/2017

Abbreviations and acronyms:
RID: The Revised International Code for the Transport of Dangerous Goods
ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Dangerous Goods Code
ADR: Agreement for the International Carriage of Dangerous Goods by Road
ICAO: International Civil Aviation Organization
IATA: International Air Transport Association
AHC: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
Trade name: Nu-Foamicide M-8507

<table>
<thead>
<tr>
<th>Term</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELINCS</td>
<td>European List of Notified Chemical Substances</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service (Division of the American Chemical Society)</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Association (USA)</td>
</tr>
<tr>
<td>HRI</td>
<td>Hazardous Materials Identification System (USA)</td>
</tr>
<tr>
<td>VPC</td>
<td>Volatile Organic Compounds (USA, ELU)</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal concentration, 50 percent</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal dose, 50 percent</td>
</tr>
<tr>
<td>PBT</td>
<td>Persistent, Bioaccumulative and Toxic</td>
</tr>
<tr>
<td>PBDE</td>
<td>Very Persistent and Very Bioaccumulative</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety and Health</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>PRIEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>REL</td>
<td>Recommended Exposure Limit</td>
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<tr>
<td>Acute Tox. 4</td>
<td>Acute toxicity – Category 4</td>
</tr>
<tr>
<td>Skin Cor. 1B</td>
<td>Skin corrosion/irritation – Category 1B</td>
</tr>
<tr>
<td>Eye Dam. 1</td>
<td>Serious eye damage/eye irritation – Category 1</td>
</tr>
<tr>
<td>Eye Dam. 2A</td>
<td>Serious eye damage/eye irritation – Category 2A</td>
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<tr>
<td>Aquatic Acute 1</td>
<td>Hazardous to the aquatic environment - acute aquatic hazard – Category 1</td>
</tr>
<tr>
<td>Aquatic Acute 2</td>
<td>Hazardous to the aquatic environment - acute aquatic hazard – Category 2</td>
</tr>
<tr>
<td>Aquatic Chronic 1</td>
<td>Hazardous to the aquatic environment - long-term aquatic hazard – Category 1</td>
</tr>
<tr>
<td>Aquatic Chronic 2</td>
<td>Hazardous to the aquatic environment - long-term aquatic hazard – Category 2</td>
</tr>
</tbody>
</table>

Data compared to the previous version above.

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