2. Hazards Identification

EMERGENCY OVERVIEW: DANGER! Flammable liquid and vapor. Vapors may cause flash fire or explosion. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Flammable liquid and vapor. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Keep container closed and away from heat, sparks, and open flame. Store away from caustics and oxidizers. Avoid breathing vapor. Avoid skin and eye contact. Use only with adequate ventilation. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Irritating to eyes, respiratory system and skin. Harmful or fatal if swallowed.
GHS Classification
Flam. Liq. 2

Symbol(s) of Product

Signal Word
Danger

Possible Hazards
86% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS
Flammable Liquid, category 2
H225
Highly flammable liquid and vapour.

GHS LABEL PRECAUTIONARY STATEMENTS
P210
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233
Keep container tightly closed.
P280
Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P370+P378
In case of fire: Use... to extinguish.
P403+P235
Store in a well-ventilated place. Keep cool.
P501
Dispose of contents/container.

GHS SDS PRECAUTIONARY STATEMENTS
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.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl carbonate</td>
<td>616-38-6</td>
<td>45-70</td>
<td>GHS02</td>
<td>H225</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with Butyl 2-</td>
<td>28262-63-7</td>
<td>7-13</td>
<td>No Information</td>
<td>No Information</td>
</tr>
<tr>
<td>methyl-2-propenoate and Methyl 2-methyl-2-</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>propenoate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1,2,4-Benzencarboxylic acid, tris(2-ethylhexyl)</td>
<td>3319-31-1</td>
<td>3-7</td>
<td>GHS07</td>
<td>H312-332</td>
</tr>
<tr>
<td>ester</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

FIRST AID - INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately. NOTE: Only trained personnel should administer artificial respiration or give oxygen.

FIRST AID - SKIN CONTACT: Wash skin with soap and water for 15 minutes. Get medical aid if symptoms persist. Remove and wash contaminated clothing. DO NOT try to peel the solidified material from the skin or use solvents or thinners to dissolve it. The use of vegetable oil or mineral oil is recommended for removal of this material from the skin. Flush exposed area with water while removing contaminated clothing. Get medical attention if irritation persists. To remove from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

FIRST AID - EYE CONTACT: If material gets into eyes, flush with water immediately for 15 minutes. Consult a physician.

FIRST AID - INGESTION: If swallowed, DO NOT INDUCE VOMITING. Get medical attention immediately.

5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Eliminate sources of ignition: heat, electrical equipment, sparks and flames. Vapors can form an ignitable mixture with air. Vapors can flow along surfaces to a distant ignition source and flash back. Vapors may form explosive mixtures with air. Containers may explode if exposed to extreme heat. Empty containers retain product residue (liquid
and/or vapor). Vapor can ignite potentially causing an explosion.

**SPECIAL FIREFIGHTING PROCEDURES:** Wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear. Use water spray to cool exposed surfaces. Cool fire-exposed containers using water spray.

**EXTINGUISHING MEDIA:** No Information

### 6. Accidental Release Measures

**ENVIRONMENTAL MEASURES:** No Information

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Scrape up dried material and place into containers.

### 7. Handling and Storage

**HANDLING:** KEEP OUT OF REACH OF CHILDREN DO NOT TAKE INTERNALLY. Remove all sources of ignition. Keep away from open flames, hot surfaces and sources of ignition. Provide adequate ventilation. Avoid heat, sparks and open flames. Wear appropriate personal protection. Avoid breathing vapor and contact with eyes, skin and clothing. Use in well ventilated area. Open all windows and doors or use other means to ensure cross-ventilation and fresh air entry during application and drying. Odor is not an adequate warning for hazardous conditions. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. Wash thoroughly after handling. Do not use in areas where static sparks may be generated.

**STORAGE:** Store away from sources of ignition and heat. Do not store at temperatures above 120 °F (49 °C). Store containers away from excessive heat and freezing. Store away from caustics and oxidizers. Keep containers tightly closed.

### 8. Exposure Controls/Personal Protection

#### Ingredients with Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH TLV STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethyl carbonate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl-, polymer with</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>Butyl 2-methyl-2-propenoate and Methyl 2-methyl-2-propenoate</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>1,2,4-Benzene dicarboxylic acid, tris(2-ethylhexyl) ester</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
</tbody>
</table>

**Further Advice:** MEL = Maximum Exposure Limit  OES = Occupational Exposure Standard  SUP = Supplier's Recommendation  Sk = Skin Sensitizer  N.E. = Not Established

#### Personal Protection

**RESPIRATORY PROTECTION:** A NIOSH-approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits. If concentrations exceed the exposure limits specified, use of a NIOSH-approved supplied air respirator is recommended. Where the protection factor is exceeded, use of a Self Contained Breathing Apparatus (SCBA) may be necessary. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear and appropriate, properly fitted respirator (NIOSH approved) during and after application. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

**SKIN PROTECTION:** Solvent-resistant gloves.

**EYE PROTECTION:** Goggles or safety glasses with side shields.

**OTHER PROTECTIVE EQUIPMENT:** Provide eyewash and solvent impervious apron if body contact may occur.
HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Red</td>
</tr>
<tr>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Density, g/cm³</td>
<td>1.09 - 1.09</td>
</tr>
<tr>
<td>Freeze Point, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not Established</td>
</tr>
<tr>
<td>Decomposition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boiling Range, °C</td>
<td>90.5 - 90.5</td>
</tr>
<tr>
<td>Minimum Flash Point, °C</td>
<td>16</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Faster Than n-Butyl Acetate</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Heavier Than Air</td>
</tr>
<tr>
<td>Combustible Dust</td>
<td>Does not support combustion</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity (mPa.s)</td>
<td>Not Established</td>
</tr>
<tr>
<td>Partition Coeff., n-octanol/water</td>
<td>Not Established</td>
</tr>
<tr>
<td>Explosive Limits, %</td>
<td>N.E. - N.E.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Pressure, mmHg</td>
<td>Pensky-Martens Closed Cup</td>
</tr>
<tr>
<td>Flash Method</td>
<td>Class IB</td>
</tr>
</tbody>
</table>

(See "Other information" Section for abbreviation legend)
(If product is an aerosol, the flash point stated above is that of the propellant.)

10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Keep away from open flames, hot surfaces and sources of ignition. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Avoid contact with skin, eyes and clothing. Do not smoke.

INCOMPATIBILITY: Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. Strong oxidizers, alkali metals and alkaline earth metals may cause fires or explosions.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation of vapors may cause irritation of the nose, throat, lungs and respiratory tract. Inhalation of vapors in high concentration may cause shortness of breath (lung edema). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Prolonged, repeated or high exposures may cause central nervous system depression leading to headaches, nausea, drowsiness, dizziness, and possibly narcosis. In extreme cases, may cause loss of consciousness.

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Harmful if absorbed through the skin. May cause skin irritation. Prolonged and repeated skin contact may cause dermatitis, drying and defatting due to the solvent properties.

EFFECT OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision.

EFFECT OF OVEREXPOSURE - INGESTION: Harmful or fatal if swallowed. May cause gastrointestinal disturbances with dizziness and central nervous system depression. If ingested, may cause depressed respiration. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed. Aspiration of material into the lungs due to vomiting can cause chemical pneumonitis, which can be fatal.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Repeated or prolonged exposure may cause skin, respiratory, kidney and liver damage. Prolonged or repeated inhalation of solvent vapors may cause irregular heartbeat. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Symptoms include: loss of memory, loss of intellectual ability and loss of coordination. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

PRIMARY ROUTE(S) OF ENTRY: Skin Contact, Inhalation
Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD₅₀</th>
<th>Dermal LD₅₀</th>
<th>Vapor LC₅₀</th>
</tr>
</thead>
<tbody>
<tr>
<td>616-38-6</td>
<td>Dimethyl carbonate</td>
<td>13000 mg/kg Rat</td>
<td>&gt;5000 mg/kg Rabbit</td>
<td>N.I.</td>
</tr>
<tr>
<td>28262-63-7</td>
<td>2-Propenoic acid, 2-methyl-, polymer with Butyl 2-methyl-2-propenoate and Methyl 2-methyl-2-propenoate</td>
<td>N.I.</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>3319-31-1</td>
<td>1,2,4-Benzene-tricarboxylic acid, tris(2-ethylhexyl) ester</td>
<td>&gt;3200 mg/kg Rat</td>
<td>&gt;1970 mg/kg Rabbit</td>
<td>N.I.</td>
</tr>
</tbody>
</table>

N.I. = No Information

12. Ecological Information

ECOLOGICAL INFORMATION: Ecological injuries are not known or expected under normal use.

13. Disposal Information

DISPOSAL INFORMATION: Residues and spilled material are hazardous waste due to ignitability. Dispose of material in accordance with all federal, state and local regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste. Liquids cannot be disposed of in a landfill. Do not flush into surface water or sanitary sewer system. Do not empty into drains. Do not re-use empty containers. The container for this product can present explosion or fire hazards, even when emptied. To avoid risk of injury, do not cut, puncture, or weld on or near this container.

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: NOTE: Review fire hazards before proceeding with clean up. Immediately eliminate sources of ignition. Keep people away from and upwind of spill/leak. Prevent product from entering drains. Soak up with inert absorbent material and dispose of as hazardous waste. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Scrape up dried material and place into containers.

14. Transport Information

| DOT UN/NA Number: | UN1133 |
| DOT Proper Shipping Name: | Adhesives, containing a flammable liquid |
| DOT Technical Name: | N.A. |
| DOT Hazard Class: | 3 Flammable liquid |
| Hazard SubClass: | N.A. |
| Packing Group: | II |

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category
This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:
- Flammable (gases, aerosols, liquids, or solids)

SARA SECTION 313:
This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:
No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:
All ingredients in this product are either on TSCA inventory list, or otherwise exempt.
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:
No TSCA 12(b) components exist in this product.

16. Other Information

Revision Date: 6/2/2022
Supersedes Date: 4/12/2022
Reason for revision: Substance and/or Product Properties Changed in Section(s):
01 - Product Information
02 - Hazards Identification
05 - Flammability Information
09 - Physical & Chemical Information
14 - Transportation Information
15 - Regulatory Information
Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

HMIS Ratings:

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2*</td>
<td>3</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

VOC Less Water Less Exempt Solvent, g/L: 3.0
VOC Material, g/L: 1
VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.10
VOC Actual, Wt/Wt%: 0.1

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

- H225  Highly flammable liquid and vapour.
- H312  Harmful in contact with skin.
- H332  Harmful if inhaled.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

- GHS02
- GHS07

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.