1. Identification

Product Name: Tankbond Heavy Duty Advanced Epoxy (Resin)
Product UPC Number: 070798001763
Manufactured For: DAP Global Inc.
2400 Boston Street Suite 200
Baltimore, MD 21224-4723
888-327-8477 (non - emergency matters)
SDS Coordinator: MSDS@dap.com
Emergency Telephone: 1-800-535-5053, 1-352-323-3500, 1-800-222-1222

Revision Date: 4/12/2022
Supercedes Date: 12/29/2021
Product Use/Class: Adhesive
SDS No: 1021004
Preparer: Regulatory and Environmental Affairs

2. Hazards Identification

EMERGENCY OVERVIEW: DANGER! Flammable liquid and vapor. KEEP OUT OF REACH OF CHILDREN! 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. 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. Skin and eye irritant. Contains epoxy constituents. See information supplied by the manufacturer.
GHS Classification
Acute Tox. 4 Inhalation, Carc. 2, Eye Irrit. 2, Flam. Liq. 2, Skin Irrit. 2, Skin Sens. 1, STOT SE 3 RTI

Signal Word
Danger

Possible Hazards
17% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS
- Flammable Liquid, category 2 (H225)
  Highly flammable liquid and vapour.
- Skin Irritation, category 2 (H315)
  Causes skin irritation.
- Skin Sensitizer, category 1 (H317)
  May cause an allergic skin reaction.
- Eye Irritation, category 2 (H319)
  Causes serious eye irritation.
- Acute Toxicity, Inhalation, category 4 (H332)
  Harmful if inhaled.
- STOT, single exposure, category 3, RTI (H335)
  May cause respiratory irritation.
- Carcinogenicity, category 2 (H351)
  Suspected of causing cancer.

GHS LABEL PRECAUTIONARY STATEMENTS
- P201
  Obtain special instructions before use.
- P210
  Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261
  Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264
  Wash thoroughly after handling.
- P271
  Use only outdoors or in a well-ventilated area.
- P272
  Contaminated work clothing should not be allowed out of the workplace.
- P270
  Wear protective gloves/protective clothing/eye protection/face protection.
- P280
  Use personal protective equipment as required.
- P302+P352
  IF ON SKIN: Wash with plenty of soap and water.
- P302+P361+P353
  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
- P304+P340
  IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P304+P351+P338
  IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313
  IF exposed or concerned: Get medical advice/attention.
- P312
  Call a POISON CENTER or doctor/physician if you feel unwell.
- P321
  Specific treatment (see ... on this label).
- P332+P313
  If skin irritation occurs: Get medical advice/attention.
- P333+P313
  If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313
  If eye irritation persists: Get medical advice/attention.
- P362
  Take off contaminated clothing.
- P370+P378
  In case of fire: Use... to extinguish.
- P403+P233
  Store in a well-ventilated place. Keep container tightly closed.
- P403+P235
  Store in a well-ventilated place. Keep cool.
- P405
  Store locked up.
- 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.
- P363
  Wash contaminated clothing before reuse.

3. Composition/Information on Ingredients
4. First-aid Measures

FIRST AID - INHALATION: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical attention immediately.

FIRST AID - SKIN CONTACT: In case of contact, wash skin immediately with soap and water.

FIRST AID - EYE CONTACT: In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

FIRST AID - INGESTION: If swallowed do not induce vomiting. Seek immediate medical attention.

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.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Spray or Fog

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. Dike to prevent entering any sewer or waterway. Soak up with inert absorbent material and dispose of as hazardous waste. Use personal protective equipment as necessary. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Use absorbent material or scrape up dried material and place in container. Never discard in a liquid state. Dispose of material in accordance with all federal, state and local regulations.

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 contact with eyes, skin and clothing. Empty containers retain product residue (liquid and/or vapor). Vapor can ignite potentially causing an explosion. 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>Methyl methacrylate</td>
<td>50 ppm TWA</td>
<td>100 ppm STEL</td>
<td>100 ppm TWA, 410 N.E.</td>
<td>5 ppm TWA, 25 mg/m3 TWA</td>
</tr>
<tr>
<td>2-Propenoic acid, 2-methyl-, cyclohexyl ester</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
<td>N.E.</td>
</tr>
<tr>
<td>N,N-Dimethylaniline</td>
<td>5 ppm TWA Dimethylaniline</td>
<td>10 ppm STEL Dimethylaniline</td>
<td>5 ppm TWA, 25 mg/m3 TWA Dimethylaniline</td>
<td>N.E.</td>
</tr>
</tbody>
</table>
2-Propanol, 1,1'-[4-methylphenyl]iminobis-
2-Propenoic acid, 2-methyl-, 2-
hydroxyethyl ester, phosphate
Hexadecanoic acid, hexadecyl ester
Methacrylic acid

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: No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment. 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: Impervious gloves. Wear nitrile, neoprene, or natural rubber gloves.

EYE PROTECTION: Goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Impervious clothing.

HYGIENIC PRACTICES: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Do not ingest or inhale. Do not expose container to heat or flame. Contaminated clothing should be changed and washed before reuse. Eating, drinking and smoking in immediate work area should be prohibited.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Value</th>
<th>Value</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance:</td>
<td>Gray</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density, g/cm³:</td>
<td>1.12 - 1.12</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Freeze Point, °C:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in Water:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Decomposition Temperature, °C:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Range, °C:</td>
<td>100 - 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Minimum Flash Point, °C:</td>
<td>15</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate:</td>
<td>Slower Than n-Butyl Acetate</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Density:</td>
<td>Heavier Than Air</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Combustible Dust:</td>
<td>Does not support combustion</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Physical State:</td>
<td>Paste</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Odor Threshold:</td>
<td>Not Established</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>pH:</td>
<td>Not Applicable</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viscosity (mPa.s):</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Partition Coeff., n-octanol/water:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Explosive Limits, %:</td>
<td>1 - 8.8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure, mmHg:</td>
<td>Not Established</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Method:</td>
<td>Seta Closed Cup</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability, NFPA:</td>
<td>Flammable Liquid</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Class:</td>
<td>Class IB</td>
<td></td>
<td></td>
<td></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 normal conditions.

CONDITIONS TO AVOID: Excessive heat and freezing. 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. Do not smoke.

INCOMPATIBILITY: Open flames, hot surfaces and sources of ignition. Keep away from strong oxidizing agents, heat and open flames. None under normal processing.

HAZARDOUS DECOMPOSITION PRODUCTS: To avoid thermal decomposition, do not overheat.
11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: Immediate bonding of skin may result upon contact.

EFFECT OF OVEREXPOSURE - EYE CONTACT: Causes severe eye irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: Chronic exposure may cause dermatitis. Constituents of this product include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

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>80-62-6</td>
<td>Methyl methacrylate</td>
<td>9400 mg/kg Rat</td>
<td>6550 mg/kg Rabbit</td>
<td>29.8 mg/L Rat</td>
</tr>
<tr>
<td>101-43-9</td>
<td>2-Propanoic acid, 2-methyl-, cyclohexyl ester</td>
<td>N.I.</td>
<td>&gt;2000 mg/kg Rat</td>
<td>N.I.</td>
</tr>
<tr>
<td>121-69-7</td>
<td>N,N-Dimethylaniline</td>
<td>951 mg/kg Rat</td>
<td>1770 mg/kg Rabbit</td>
<td>&gt;0.5 - &lt;5.0 mg/L Rat</td>
</tr>
<tr>
<td>38668-48-3</td>
<td>2-Propanol, 1,1&quot;-[4-methylphenyl]iminobis-</td>
<td>N.I.</td>
<td>&gt;2000 mg/kg Rat</td>
<td>N.I.</td>
</tr>
<tr>
<td>52628-03-2</td>
<td>2-Propanoic acid, 2-methyl-, 2-hydroxyethyl ester, phosphate</td>
<td>N.I.</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>540-10-3</td>
<td>Hexadecanoic acid, hexadecyl ester</td>
<td>N.I.</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>79-41-4</td>
<td>Methacrylic acid</td>
<td>1060 mg/kg Rat</td>
<td>500 - 1000 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. 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. Dike to prevent entering any sewer or waterway. Soak up with inert absorbent material and dispose of as hazardous waste. Use personal protective equipment as necessary. Read all product instructions before using. Personal protective equipment should include impervious gloves, protective eye wear, and suitable work clothes. Use absorbent material or scrape up dried material and place in container. Never discard in a liquid state. Dispose of material in accordance with all federal, state and local regulations.

14. Transport 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), Carcinogenicity, Acute Toxicity (any route of exposure), Skin Corrosion or Irritation, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure)

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:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl methacrylate</td>
<td>80-62-6</td>
</tr>
<tr>
<td>N,N-Dimethylaniline</td>
<td>121-69-7</td>
</tr>
</tbody>
</table>

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: 4/11/2022
Supersedes Date: 12/29/2021
Reason for revision: Substance and/or Product Properties Changed in Section(s):
01 - Product Information

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>1</td>
<td>X</td>
</tr>
</tbody>
</table>

VOC Less Water Less Exempt Solvent, g/L: 0.4
VOC Material, g/L: 0
VOC as Defined by California Consumer Product Regulation, WT/Wt%: 0.00
VOC Actual, WT/Wt%: 0.0

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

H225    Highly flammable liquid and vapour.
H302    Harmful if swallowed.
H311    Toxic in contact with skin.
H312    Harmful in contact with skin.
H314    Causes severe skin burns and eye damage.
H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H319  Causes serious eye irritation.
H330  Fatal if inhaled.
H332  Harmful if inhaled.
H335  May cause respiratory irritation.
H351  Suspected of causing cancer.

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

GHS02  
GHS05  
GHS06  
GHS07  
GHS08  

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.