1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: TAMKO TWP-2 Water-Based Adhesive Primer
LABEL: TAMKO
PRODUCT USE & DESCRIPTION: For waterproofing
CHEMICAL FAMILY: Polymer/resin

MANUFACTURED FOR: TAMKO Building Products, Inc.
P. O. Box 1404
Joplin, MO 64802-1404
www.TAMKO.com

EMERGENCY TELEPHONE NUMBERS;
General Information: 1-417-624-6644 (8 a.m. - 5 p.m. CST)
Chemtrec: 1-800-424-9300 (24 HOURS)

2. HAZARDS IDENTIFICATION

SIGNALWORD: Warning
GHS CLASSIFICATION:
Skin Irritation – Category 2
Eye Irritation – Category 2B
Specific Target Organ Toxicity, Single Exposure – Category 3

HAZARD STATEMENTS:
May cause respiratory irritation.
Causes skin and eye irritation.

PRECAUTIONARY STATEMENTS:

Prevention
Avoid breathing dust/fume/mist/vapors/spray. Wear protective gloves/protective clothing/eye protection/face protection.
Use only outdoors or in a well ventilated area. Wash hands and exposed skin thoroughly after handling.

Response
If on skin: Wash with plenty of water. Get medical advice/attention: If exposed or concerned or you feel unwell, if eye and or skin irritation persists.
Specific treatment: See section 4-First Aid
Take off clothing and wash before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If inhaled, remove person to fresh air and keep comfortable for breathing.

Storage
Store locked up, in a well-ventilated place.

Disposal
Dispose in accordance with Federal, State, and Local regulations. (See section 13 for additional information).

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>% by Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aqua Ammonia</td>
<td>1331-21-6</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>51274-00-1</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Styrene Butadiene Copolymer</td>
<td>9003-55-8</td>
<td>15-26</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>3-5</td>
</tr>
<tr>
<td>Resin Ester Aquatec e-5375</td>
<td>8050-31-5</td>
<td>5-8</td>
</tr>
<tr>
<td>Glycol Comp</td>
<td>Glycol Co</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Engineered Composite</td>
<td>Proprietary</td>
<td>1-3</td>
</tr>
<tr>
<td>Surfactant</td>
<td>NE</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>

NE = not established.

4. FIRST AID MEASURES

EYE CONTACT: Remove contact lenses. Flush Eyes with large amounts of water for 15 minutes. Seek medical attention.
SKIN CONTACT: Remove and launder contaminated clothing. Wash affected area thoroughly with soap and water. DO NOT use solvents or thinners.
INGESTION: DO NOT induce vomiting. Get medical attention immediately. Provide SDS to medical personnel.
INHALATION: Remove to fresh air. Keep warm and at rest. Restore breathing. Seek medical attention.
NOTES TO PHYSICIAN: Treat symptomatically. Contact poison control and/or seek medical attention as needed.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, Dry chemical, Foam, Water spray fog
UNSUITABLE EXTINGUISHING MEDIA: Avoid solid water stream as this may spread flammable liquid.
SPECIAL FIRE FIGHTING PROCEDURES: Full protective equipment and self-contained breathing apparatus should be used.
UNUSUAL FIRE OR EXPLOSION HAZARDS: Closed containers may explode or auto ignite when exposed to extreme heat.
Vapors may spread long distances and ignite. Vapors may form explosive mixtures with air. During emergency conditions, exposure to burning product may cause health hazard. Symptoms may not be immediately apparent. Seek medical attention.
SEE SECTION 10 FOR COMBUSTION PRODUCTS
6. ACCIDENTAL RELEASE MEASURES

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED: Avoid inhalation, ingestion, and contact with skin or eyes. Remove all sources of ignition. Ventilate area. Wear appropriate PPE (Personal Protective Equipment). Contact appropriate authorities needed, if necessary, for immediate action and containment. Do not allow to enter drains or water courses. In case of sewer or drain contamination, contact local water company; water stream contamination, contact EPA. Ventilate area. Dike area with inert material. Remove product with inert absorbent, shovel or sweep up. Keep in suitable containment for approved disposal.

Spills entering surface waters or sewers entering/leading to surface waters that cause a sheen must be reported to the National Response Center 1-800-424-8802.

WASTE DISPOSAL METHODS: This product could be classified as a hazardous waste due to ignitability. Dispose in accordance with applicable Federal, State, and Local regulations. Do not burn.

7. HANDLING AND STORAGE

HANDLING AND PRECAUTIONS: Do not ingest. Keep out of reach children. Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling.

STORAGE: Keep container tightly sealed when not in use. Do not store in in places with extreme heat and/or extreme cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS No.</th>
<th>OSHA TWA</th>
<th>OSHA STEL</th>
<th>ACGIH TWA</th>
<th>ACGIH STEL</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aqua Ammonia</td>
<td>1331-21-6</td>
<td>25</td>
<td>NE</td>
<td>25</td>
<td>NE</td>
<td>ppm</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>51274-00-1</td>
<td>15/5*</td>
<td>NE</td>
<td>10/3*</td>
<td>NE</td>
<td>mg/m³</td>
</tr>
<tr>
<td>1,2-Propanediol</td>
<td>57-55-6</td>
<td>50</td>
<td>NE</td>
<td>50</td>
<td>NE</td>
<td>ppm</td>
</tr>
<tr>
<td>Glycol Comp</td>
<td>Glycol Co</td>
<td>20</td>
<td>NE</td>
<td>20</td>
<td>NE</td>
<td></td>
</tr>
</tbody>
</table>

NE= Not established.

Note: Due to the form of the product, hazardous exposures from this product are not expected to occur. Gloves must be worn when handling and adequate ventilation must be provided during roofing related activities.

* Total Nuisance Dust/Respirable Dust.

Exposure Controls/Personal Protection: Use only with adequate ventilation Avoid contact with skin and eyes. Avoid breathing vapor or spray mist. Respiratory protection may be needed if adequate ventilation cannot be obtained. Eye protection should be used at all times when using this product. Intentional misuse by deliberate concentration and inhalation of this product can be harmful or fatal.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Milky White Liquid, Glycol Odor

Odor Threshold: No Data Available

pH: 8 to 8.5

Boiling Point: 212 °F

Melting Point: No Data Available

Flash Point: 107 °F

Autoignition Temperature: No Data Available

Viscosity: >Water

Decomposition Temperature: No Data Available

Upper/Lower Flammability or Explosive Limits: No Data Available

Vapor Pressure: 32 (mm Hg)

Vapor Density (Air = 1): 1

Specific Gravity/Relative Density: No Data Available

Solubility (IES): Yes

Initial Boiling Point and Boiling Range: see BOILING POINT

Evaporation Rate (Ether = 1): 1

Flammability(Solid and Gas): No Data Available

Partition Coefficient: N-Octanol/Water: No Data Available

10. STABILITY AND REACTIVITY

REACTIVITY: Stable under normal conditions

CHEMICAL STABILITY: Stable under the recommended storage and handling conditions (see Section 7); hazardous polymerization will not occur.

CONDITIONS TO AVOID: Freezing, direct sunlight, high heat. All possible ignition and spark or flame sources. Do not pressurize, cut, braze drill, grind, or heat containers. Avoid pure oxygen.

MATERIALS TO AVOID: Keep away from oxidizing agents and strongly alkaline and acidic materials to prevent the possibility of exothermic reaction.

HAZARDOUS DECOMPOSITION: Under normal conditions, hazardous decomposition should not occur. In a fire, hazardous decomposition products such as smoke, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced.

11. TOXICOLOGICAL INFORMATION

EYE – Can cause eye irritation.

SKIN – Can cause skin irritation.

INHALATION – Cured product particles, fume and vapor may cause upper respiratory irritation.

INGESTION – May cause harmful effects if swallowed.

12. ECOLOGICAL INFORMATION

Ecotoxicity – No specific data available on this product.

Persistence and degradability – No data available

Bioaccumulative potential – No data available

Mobility in Soil – No data available

Other adverse effects (GHG, Ozone) - No data available
13. DISPOSAL CONSIDERATIONS
This product could be classified as a hazardous waste due to ignitability. Dispose in accordance with Federal, State, and Local regulations. Prevent materials from entering drains, sewers, or waterways. Do not dump on the ground. Do not burn.

14. TRANSPORT INFORMATION
This product is not regulated as a hazardous material for transport under 49 CFR and for vessel transport under the IMDG Code.

15. REGULATORY INFORMATION
TOXIC SUBSTANCES CONTROL ACT (TSCA): Some components in this product are listed on the TSCA Inventory.
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA): None
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA), TITLE III:
  Section 302 Extremely Hazardous Substances: None
  Section 311/312 Hazard Categories: See Section 2 of the SDS.
  Section 313 Reportable Ingredients: This material contains the following chemicals which are subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Concentration (% by Wt.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glycol Comp.</td>
<td>Glycol Co</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>


16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>HMIS Rating:</th>
<th>NFPA Rating:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health - 1</td>
<td>Health - 2</td>
</tr>
<tr>
<td>Flammability 0</td>
<td>Flammability 0</td>
</tr>
<tr>
<td>Reactivity 0</td>
<td>Reactivity 0</td>
</tr>
</tbody>
</table>

Preparation Date: April 2015
Revision Date: February 2017
Revisions: Updated table footnotes in Section 8.
          Updated California Proposition 65 warning language in Section 15.

Revision Date: September 2018
Revisions: Product name change (Section 1 and SDS header).
          Updated % by weight in Section 3.
          Corrected typos in Sections 11 and 15.

Revision Date: February 2019
Revisions: Updated Header (Date and T code).
          Corrected typos in Section 3 and 15.

Disclaimer of Liability

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The information and recommendations are offered for the user’s consideration and examination, and it is the user’s responsibility to satisfy his or herself that they are suitable and complete for the user’s particular use.