Safety Data Sheet

Tradename/Formula: PKG9056 LV05
Compound Type: Water Based Adhesive

2. HAZARDS IDENTIFICATION

OSHA HAZCOM 2012/GHS HAZARD CLASSIFICATION: Not hazardous.
NO PICTOGRAM REQUIRED
LABELING: This product is not classified as hazardous in accordance with the OSHA Hazard Communication Standard 29CFR 1910.1200 (2012) or Canadian WHMIS 2015.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Substance / Mixture: Mixture</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEMICAL NAME</td>
</tr>
<tr>
<td>glycerol</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

EYES: Irrigate with eyewash solution or clean water until pain is relieved, at least 15 minutes. Obtain medical attention.
SKIN: Wash skin with soap and water. If symptoms develop, obtain medical attention.
INHALATION: Remove to fresh air. Get medical attention if irritation persists.
INGESTION: Treat symptomatically and supportively. Get medical attention, DO NOT attempt to give anything by mouth to an unconscious person. Provide medical care provider with this SDS.
MOST IMPORTANT SYMPTOMS/EFFECTS ACUTE AND DELAYED: May cause mild eye and skin irritation.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT, IF NECESSARY: None normally required.

5. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Liquid is not combustible. For dry film use water spray or fog, CO2, dry chemical; Foam.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Fire fighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes.
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: This is a water-based product and presents no particular fire or explosion hazard. Cool closed containers exposed to fire with water spray. Dry polymer film will burn. Product contains low level of organic volatiles which may be emitted at elevated temperatures. Hazardous combustion products include carbon monoxide, carbon dioxide, unknown hydrocarbons.
6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, and EMERGENCY PROCEDURES: No special protection is normally required. Refer to protective measures listed in sections 7 and 8.

ENVIRONMENTAL PRECAUTIONS: Avoid release to the environment. Washings must be prevented from entering surface water drains.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Absorb spillages onto sand, earth or any suitable absorbent material. Sweep up and shovel into waste drums. Wash the spillage area with water.

For safety and environmental precautions, please review entire Safety Data Sheet for necessary information.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: Avoid breathing vapors. Avoid contact with eyes. Product contains low level or organic volatiles which could accumulate in the unvented headspace of drums or bulk storage vessels. Open drums in well ventilated areas. Remove contaminated clothing and launder before reuse. Wash before eating, drinking, or using toilet facilities.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Avoid extreme temperatures. Protect from freezing.

STORAGE TEMPERATURE: 40°F – 100°F

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>glycerol</td>
<td>56-81-5</td>
<td>TWA (mist, respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (mist, total dust)</td>
<td>15 mg/m³</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Total)</td>
<td>10 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA (Respirable fraction)</td>
<td>5 mg/m³</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

EXPOSURE GUIDELINES

APPROPRIATE ENGINEERING CONTROLS: Good general ventilation should be adequate. In case of insufficient ventilation, wear suitable respiratory equipment.

PERSONAL PROTECTION

EYE PROTECTION: Wear safety glasses with side shields. Protect against splashing.

GLOVES: The use of chemically resistant, nitrile rubber, gloves are recommended.

PROTECTIVE CLOTHING: Uniforms, coveralls, or a lab coat should be worn. Rubber boots and apron if exposure is severe.
9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE: Liquid
COLOR: White
ODOR THRESHOLD: Not established
ODOR: Slight
MELTING/FREEZING POINT: Approximately 32°F
INITIAL BOILING POINT/RANGE: >212°F
FLASH POINT: > 212 °F
EVAPORATION RATE: Same as water
FLAMMABILITY (SOLID, GAS): Not applicable
VAPOR PRESSURE: Same as water
PH: Approximately 4 - 6
FLAMMABLE LIMITS: LEL: Not applicable
UEL: Not applicable
VAPOR DENSITY: Same as water
RELATIVE DENSITY: Approximately 1.2193
SOLUBILITY(IES): Miscible in water
PARTITION COEFFICIENT, N-OCTANOL/WATER: No Data Available
AUTO-IGNITION TEMPERATURE: Not available
DECOMPOSITION TEMPERATURE: Not available
VISCOSITY: 400 - 700 cP

10. STABILITY AND REACTIVITY

REACTIVITY: Not reactive
CHEMICAL STABILITY: Stable
POSSIBILITY OF HAZARDOUS REACTIONS: Reactions with oxidizers may generate heat.
CONDITIONS TO AVOID: Protect from temperatures below 40°F
INCOMPATIBLE MATERIALS TO AVOID: Strong oxidizers, materials that react with water.
HAZARDOUS DECOMPOSITION PRODUCTS: Hazardous combustion products include carbon monoxide, carbon dioxide, unknown hydrocarbons.

11. TOXICOLOGICAL INFORMATION

ROUTE OF ENTRY: Eye Contact; Skin Contact; Inhalation; Ingestion
ACUTE (SHORT TERM) EFFECTS OF EXPOSURE

EYE: Slight/mild irritant
SKIN CONTACT: Repeated or prolonged skin contact may result in mild irritation.
INHALATION: Vapor or aerosol, if generated, can cause irritation of the eyes, nose and respiratory tract.
INGESTION: Ingestion may cause irritation of the gastrointestinal tract.
CHRONIC (LONG TERM) EFFECTS OF EXPOSURE: No chronic effects are known.
NUMERICAL MEASURES OF TOXICITY: Ingredients are not acutely toxic
CARCINOGENICITY: None of the ingredients are listed as carcinogens by IARC, NTP or OSHA.
IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA’s list of regulated carcinogens.
NTP: No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
12. ECOLOGICAL INFORMATION

Ecotoxicity: No data is available
Environmental Fate: No data is available
Bioaccumulative potential: No data is available
Mobility in soil: No data is available

13. DISPOSAL CONSIDERATIONS

To the best of our ability, this product does not meet the definition of hazardous waste under US EPA Hazardous Waste Regulations 40CFR261. Disposal via at an approved facility is recommended. Consult state, local or provincial authorities for more restrictive requirements. The hazard and precautionary statements displayed on the label also apply to any residues left in the container.

14. TRANSPORTATION INFORMATION

Consult Bill of Lading for transportation information.

DOT: Not Regulated
UNRTDG: Not regulated as a dangerous good
IATA: Not Regulated
IMDG-Code: Not regulated as a dangerous good

15. REGULATORY INFORMATION

TSCA Inventory Status and TSCA Information: This material or its components are listed on or are in compliance with the requirements of the TSCA Chemical Substance Inventory.

TSCA 12 (B) Export Notification: This material does not contain any TSCA 12 (b) regulated chemicals.

DSL: All components of this product are on the Canadian DSL
AICS: On the inventory, or in compliance with the inventory
KECI: On the inventory, or in compliance with the inventory
IECS: On the inventory, or in compliance with the inventory

Legend: TSCA (USA), DSL (Canada), REACH(Europe), AICS (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECS (China), TWINV (Taiwan)

SARA 302 EHS Chemicals: This material does not contain any SARA extremely hazardous substances.
SARA 311/312 Hazard Class: This product does not present any SARA 311/312 hazards.

SARA 313 Chemicals: This material does not contain any SARA 313 chemical above de minimus levels.

Clean Air Act: This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

California Prop 65: Please contact Supplier for more information.

16. OTHER INFORMATION

HMIS® Hazard Ratings

Health: 0   Fire Hazard: 0   Reactivity: 0