1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

1.1 PRODUCT IDENTIFIER: APU Isocyanate Resins
1.2 MANUFACTURER: SUPERSKINSYSTEMS, INC. Made in USA, ADDRESS: 322 Industrial Park Drive, Atlanta, GA 30046 PHONE: 404-216-4711
1.3 EMERGENCY PHONE: CHEMTREC 1-800-424-9300
1.4 RECOMMENDED USE: General industrial chemicals

2. HAZARDS IDENTIFICATION

2.1 GHS CLASSIFICATION
Acute toxicity
Acute toxicity (inhalation: dust, mist) Category 4
Skin corrosion/irritation Category 2
Eye damage/eye irritation Category 2B
Respiratory sensitization Category 1
Skin sensitization Category 1
Specific target organ toxicity – single exposure Category 3

2.2 GHS LABELING:

2.3 HAZARD STATEMENTS: Harmful if inhaled. Causes skin irritation. Causes eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation.
2. HAZARDS IDENTIFICATION (continued)

2.4 PREVENTION: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

2.5 RESPONSE: If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, get medical advice/attention. Call a poison control center/doctor if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If on skin (or hair): Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. If exposed or concerned: Get medical advice/attention.

2.6 STORAGE: Store in a well-ventilated place. Keep container tightly closed.

2.7 DISPOSAL: Dispose of contents/container in accordance with Federal and state regulations.

3. COMPOSITION /INFORMATION ON INGREDIENTS

3.1 SUBSTANCE:

<table>
<thead>
<tr>
<th>Component</th>
<th>%</th>
<th>CAS#</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hexamethylene-1,6-diisocyanate homopolymer</td>
<td>50</td>
<td>101-68-8</td>
</tr>
<tr>
<td>Hydrophilic aliphatic polyisocyanate</td>
<td>50</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

4. FIRST AID

4.1 SKIN EXPOSURE: Wash with plenty of soap and water. If redness, itching or a burning sensation develops get immediate medical attention.

4.2 EYES: Immediately flush with water for a continuous 15 minutes. Have eyes examined and treated by medical practices immediately.

4.3 INGESTION: Immediately drink 2 glasses of water. If gastrointestinal symptoms develop, get immediate medical attention.

4.4 INHALATION: Get to fresh air immediately. If difficult to breathe, give oxygen and consult physician.

4.5 NOTE TO PHYSICIAN: No specific antidote available.
5. FIRE FIGHTING MEASURES

5.1 EXTINGUISHING MEDIA: Water spray, fog, dry chemical, foam, CO2
5.2 UNUSUAL FIRE AND EXPLOSION HAZARDS: Closed containers may rupture due to buildup of pressure when exposed to extreme heat. Cool containers exposed to fire with water. After the fire is extinguished, neutralize the spilled material with decontaminant. Keep the area clear. Clean up residual material by washing area with water. Collect washings for disposal.
5.3 SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: Firefighters should wear NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.
5.4 HAZARDOUS DECOMPOSITION MATERIALS UNDER FIRE CONDITIONS: Oxides of carbon, hydrogen cyanide.

6. ACCIDENTAL RELEASE MEASURES

6.1 PERSONAL PRECAUTIONS: Evacuate area. Wear appropriate protective gear for the situation. (See Personal Protection Information in Section 8).
6.2 ENVIRONMENTAL PRECAUTIONS: Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
6.3 METHOD FOR CLEAN UP: (Small spill) Spray with a neutralizing agent to neutralize. Absorb with an inert absorbent. Dispose of absorbent and , etc., remove . (Large spill) . a neutralizing agent to neutralize. Absorb with an inert absorbent. Clean up residual material by washing area with water. Collect washings for disposal. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies. Rags waste paper are stored in a container with a lid. Recover as much spill material as possible.

7. HANDLING AND STORAGE

7.1 PRECAUTIONS FOR SAFE HANDLING: Handle material with suitable protection (See Section 8). Handle with adequate ventilation. Avoid breathing vapors. Avoid contact with eyes, skin and clothing.
7.2 VENTILATION: General area dilution/exhaust ventilation.
7.3 CONDITIONS FOR SAFE STORAGE: Store upright in a cool, dry, well ventilated area out of direct sunlight. Keep away from heat, open flames and ignition sources. Keep container tightly closed. Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING MEASURES: Set up hand-wash station and eyewash station near work area. General area dilution/exhaust ventilation.
8. EXPOSURE CONTROLS/PERSOAL PROTECTION (continued)

8.2 EXPOSURE LIMITS:
4,4’-Diphenylmethane diisocyanate 0.005 ppm – ACGIH TWA
4,4’-Diphenylmethane diisocyanate 0.02 ppm – OSHA Ceiling Limit

8.3 PERSONAL PROTECTION MEASURES:
Respiratory protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with regulatory standards and/or industrial recommendations. Self-contained or supplied-air respiratory equipment is recommended.
Eye protection: Safety glasses with side shields, goggles or face shield are recommended.
Skin protection: Skin contact should be minimized through the use of chemical-resistant gloves and boots, and suitable protective clothing.
The following general measures should be taken when working or handling this material:
1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
3) Wash exposed skin promptly to remove accidental splashes of contact with this material.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Liquid
COLOR: Yellowish-brown
ODOR: Nearly odorless
pH: No data available
MELTING POINT: No data available
BOILING POINT: No data available
FLASH POINT: 439F (226C)
AUTOIGNITION POINT: No data available
EXPLOSIVE LIMITS(Lower): No data available
EXPLOSIVE LIMITS(Upper): No data available
VAPOR PRESSURE: <0.0001 Pa @ 77F (25C)
VAPOR DENSITY: No data available
EVAPORATION RATE: No data available
SPECIFIC GRAVITY: 1.236@ 77F (25C)
SOLUBILITY IN WATER: Insoluble
PARTITION COEFFICIENT: No data available
DECOMPOSITION TEMPERATURE: No data available
10. STABILITY AND REACTIVITY

10.1 CHEMICAL STABILITY: Material is reacts with water, forming carbon dioxide. Reacts exothermically with amines, water, and alcohols.
10.2 CONDITIONS TO AVOID: Heat, open flame, sparks.
10.3 INCOMPATIBLE MATERIALS: Strong oxidizing agents, strong acids, amines, water, and alcohols.
10.4 HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon, hydrogen cyanide.
10.5 HAZARDOUS POLYMERIZATION: Not applicable

11. TOXICOLOGICAL INFORMATION

11.1 EYE CORROSION/IRRITATION: Slightly irritating, rabbit.
11.2 SKIN CORROSION/IRRITATION: Slightly irritating, rabbit.
11.3 ACUTE TOXICITY:
11.4 ACUTE ORAL TOXICITY: LD 50 > 10000 mg/kg, rat. (Data for polyisocyanate class)
11.5 ACUTE DERMAL TOXICITY: LD 50 > 9400 mg/kg, rabbit. (Data for polyisocyanate class)
11.6 ACUTE INHALATION TOXICITY: LC 50 = 368 mg/L/4 hour, male rat, 559 mg/L/4 hour, female rat (aerosol). Such aerosols are not encountered outside of the experimental laboratory.
11.7 SKIN SENSITIZATION: Positive dermal sensitizer (local lymph node assay, LLNA). Positive respiratory sensitization is reported in the literature.
11.9 CARCINOGENICITY: A carcinogenicity study in rats with inhalation exposure to highly respirable mists of P-MDI up to the maximum tolerated dose (Reuzel et al. 1990), revealed effects to the respiratory tract only. Effects were reflective of irritation and there was a low incidence of pulmonary adenomas and a single adenocarcinoma in the high exposure group only. Another long term exposure study using an unusual protocol (17 hours per day exposure) with monomeric MDI also revealed an irritation effect with some pre-neoplastic changes in the highest exposure group. (Hoymann et al. 1995) Overall these studies indicate that long term lung irritation to MDI mists results in a hyperplasia leading eventually to adenoma formation. Such high concentrations and highly respirable mists are only possible in the laboratory, and the inapplicability of this finding to human exposure to MDI vapour at low concentration in the workplace, results in a “not classified” for carcinogenicity. It is noted that IARC classification is group 3. (IRAC 1999) Epidemiological studies of MDI exposed workers show no increased carcinogenicity related to MDI exposure. As the conclusion of the document in Germany MAK (MAK-Values Vol.45, 2008), it sets the MAK value of MDI to category 4 (Carcinogen: substance is not genotoxic or genotoxic activity is negligible substance.)
11. TOXICOLOGICAL INFORMATION (continued)

11.10 REPRODUCTIVE TOXICITY: In a reproductive study with inhalation exposure, the NOAEL (no-observed-adverse-effect level) for maternal toxicity was considered to be 4 mg/kg/day. The NOAEL for neonatal effects was considered to be 12 mg/kg/day. Fetotoxicity was seen only in the presence of maternal toxicity.

11.11 STOT-SINGLE EXPOSURE: Inhalation is expected to be irritating.

11.12 STOT-REPEATED EXPOSURE: In a combined chronic toxicity and carcinogenicity study rats, were exposed for 6 hours/day, 5 days/week for 2 years to polymeric MDI aerosol concentrations of 0, 0.2, 1.0 or 6.0 mg/m³). Histopathology of the organs/tissues investigated showed that exposure to 6.0 mg/m³ was related to the occurrence of pulmonary tumors in males (6 adenomas and 1 adenocarcinoma) and females (2 adenomas). Although lifetime inhalation of PMDI aerosols by rats resulted in a small number of benign adenomas, they are considered to be of unlikely relevance to man. Such aerosols are not encountered outside of the experimental laboratory. This product does not contain any substances that are considered by OSHA, NTP, IARC or ACGIH to be “probable” or “suspected” human carcinogens.

12. ECOLOGICAL INFORMATION

12.1 ECOTOXICITY: 96hr LC50 > 1000 mg/L, zebra fish (Data for polyisocyanate class)
48hr EC50 >> 1000 mg/L, daphnia magna (Data for polyisocyanate class)
72hr EC50 > 1640 mg/L algae, growth rate (Data for polyisocyanate class)

12.2 PERSISTENCE AND DEGRADABILITY: Not readily biodegradable (Data for polyisocyanate class)

12.3 MOBILITY IN SOIL: No data available

13. DISPOSAL CONSIDERATION (INCLUDING CONTAINER)

13.1 RESIDUAL WASTE: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from Federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

13.2 CONTAMINATED VESSELS AND CONTAINERS: Rinse containers before disposal. Do not allow entering the water systems.
EPA Hazardous Waste = No
14. TRANSPORT AND INFORMATION

14.1 U.S. DOT: Not regulated as hazardous for shipment.

PROPER SHIPPING NAME: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains Methylene diphenyl diisocyanate)

UN NUMBER: UN3082
UN CLASS or DIVISION: 9
UN PACKING GROUP: III
LABELS: Environmental hazard
EMERGENCY GUIDE#: 171

The above transportation classification is only applicable when the product is shipped in bulk containers, where a single container contains greater than 5000 pounds. Single containers less than 5,000 pounds may be shipped as “not regulated”.

15. REGULATORY INFORMATION:

Inventory Status: US (TSCA): Yes
Canada (DSL): Yes
EU (REACH): Registered
Australia (AICS): Yes
Japan (METI): Yes
Korea (KECL): Yes

Where: Yes = all ingredients are listed on the inventory, Exempt = All ingredients are either on the inventory or exempt from the requirements of listing, No = Not determined, or one or more ingredients are not on the inventory and are not exempt from listing

SARA Title III Hazard Classes: Fire Hazard: No
Reactive Hazard: No
Release of Pressure: No
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
SARA Extremely Hazardous Substances/CERCLA Hazardous Substances: Diisocyanates (generic group) 100%
California Proposition 65: This product does not contain any components that are regulated under Proposition 65.
16. OTHER INFORMATION

National Fire Protection Association ("NFPA") Hazard Ratings:
Health: 2 (Moderate)
Flammability: 1 (Slight)
Reactivity: 1 (Slight)

National Paint and Coatings Hazardous Materials Identification System ("HMIS") Hazard Ratings:
Health: 2 (Moderate)
Flammability: 1 (Slight)
Reactivity: 1 (Slight)

HISTORY:
Date previous SDS: None
Date of issue: June 17, 2015
Reasons for Revision: GHS Format

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