AQUASEAL[™] "A" Component Revised Date: 10/19/2018 Version: 8 SDS-159

SECTION 1: IDENTIFICATION

PRODUCT NAME CAS NUMBER PRODUCT USE MANUFACTURER ADDRESS PHONE FAX EMERGENCY CONTACT TOLL FREE INTERNATIONAL FAX AQUASEAL[™] "A" Component Not available Polyurea Coating Specialty Products, Inc. (SPI) 2410 104TH ST. CT. S. STE D LAKEWOOD, WA 98499 253 588 7101 800 627 0773 253 588 7196 FOR SPILLS, LEAKS, FIRE, OR EXPOSURE CALL CHEMTREC 800 424 9300 +1 703 527 3887 913 321 1490

SECTION 2: HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS

GHS PICTOGRAM



DANGER GHS CLASSIFICAT

| GHS CLASSIFICATION | | | | | | |
|---|---|------------------|--|--|--|--|
| CATEGORY HAZARD STATEMENTS | | | | | | |
| Skin corrosion/irrita | tion Category 2 H315 Causes skin irritation. | | | | | |
| Skin sensitization | | | | May cause an allergic skin reaction. | | |
| Serious eye damag | damage/eye irritation Category 2B H320 Causes eye irritation. | | | | | |
| Acute toxicity inhalation Category 4 | | H332 | Harmful if inhaled. | | | |
| Respiratory sensitization Category 1 | | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | | | |
| | ecific target organ toxicity (STOT), single Category 3 H335 M osure; respiratory tract | | | May cause respiratory irritation. | | |
| Specific target orga repeated exposure | repeated exposure if inhaled. | | | | | |
| PRECAUTIONARY STATEMENTS | | | | | | |
| | PREVENTION | | | | | |
| P260 | Do not breathe dust/fume/ | /gas/mist/vapor | s/spray. | | | |
| P264 | Wash hands thoroughly af | ter handling. | | | | |
| P270 | Do not eat, drink, or smoke | e when using th | nis produc | xt. | | |
| P271 | Use only outdoors or in a well-ventilated area. | | | | | |
| P272 | Contaminated work clothing should not be allowed out of the workplace. | | | | | |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. | | | | | |
| P285 | In case of inadequate ventilation wear respiratory protection. | | | | | |
| RESPONSE | | | | | | |
| P302+P352 | IF ON SKIN: Wash with plenty of soap and water. | | | | | |
| P321 | Specific treatment (as detailed in this SDS). | | | | | |
| P332+P313 | IF SKIN irritation occurs: Get medical advice/attention. | | | | | |
| P362 | Take off contaminated clothing and wash before reuse. | | | | | |
| P363 | Wash contaminated clothi | ng before reuse | 2. | | | |
| P305+P351+P338 | IF IN EYES: Rinse cautiously | with water for s | everal mir | nutes. Remove contact lenses, if present and easy to do. Continue rinsing. | | |
| P337+P313 | IF eye irritation persists: G | et medical advi | ce/attenti | on. | | |

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

 P312
 Call a POISON CENTER or doctor/physician if you feel unwell.

 P304+P312
 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

IF experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P314 Get medical advice/attention if you feel unwell.
STORAGE

P342+P311

P501

P403+P233Store in a well-ventilated place. Keep container tightly closed.P405Store locked up.

DISPOSAL

Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

READ THE ENTIRE SDS FOR MORE THOROUGH EVALUATION OF THE HAZARDS



| SECTION 3: COMPOSIT | ION/INFORMATION ON INGREDIENTS | | | | | | | |
|---|---|---|--------------------|--|--|--|--|--|
| CHEMICAL NAME | | CAS NUMBER | % WEIGHT | | | | | |
| Isocyantes, reaction product of | polyol with MDI | *Proprietary | 30-70 | | | | | |
| 2,4'-Diphenylmethane diisocya | | | | | | | | |
| 4,4'-Diphenylmethane diisocyanate 101-68-8 | | | | | | | | |
| Propylene carbonate | | 108-32-7 | 1-15 | | | | | |
| 2,2'-Diphenylmethane diisocya | nate | 2536-05-2 | 1-10 | | | | | |
| *The specific chemical identity | and exact percentage (concentration) is withheld as a trade secret per a | applicable regulations | and statutes. | | | | | |
| SECTION 4: FIRST AID | MEASURES | | | | | | | |
| EYE: | In case of contact, immediately flush eyes with plenty of water for at least 15 mi | nutes. Get medical attenti | on immediately. | | | | | |
| SKIN: | After contact with skin, wash immediately with plenty of warm, soapy water. Re Continue to rinse for at least 10 minutes. A poly-glycol based skin cleanser or c water. Get medical attention if symptoms occur. Wash clothing before reuse. Cl | orn oil may be more effec | tive than soap and | | | | | |
| INHALATION: | Move exposed person to fresh air. Get medical attention immediately. irritation or bronchospasm. If breathing is labored, oxygen should be a | | | | | | | |
| INGESTION: | | Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Provided the patient is conscious, wash out mouth with water. Get medical attention if symptoms appear. | | | | | | |
| NOTES TO PHYSICIAN: | Symptomatic and supportive therapy as needed. Following severe ex monitored for 48 hours. | Symptomatic and supportive therapy as needed. Following severe exposure, medical follow-up should be | | | | | | |
| SECTION 5: FIRE FIGHT | ING MEASURES | | | | | | | |
| FLASH POINT: | >398°F (203°C). | | | | | | | |
| HAZARDS WHEN ON FIRE OR NEAR FLAME: | Closed container may forcibly rupture under extreme heat or when contents are contaminated with water $(CO_2 \text{ formed})$. | | | | | | | |
| SUITABLE EXTINGUISHING MEDIA: | Dry chemical, carbon dioxide, or dry powder. | | | | | | | |
| UNSUITABLE EXTINGUISHING MEDIA: | Direct water spray. | | | | | | | |
| SPECIAL EXPOSURE HAZARDS: | Promptly isolate the scene by removing all persons from the vicinity of action shall be taken involving any personal risk or without suitable traincrease will occur and the container may rupture. | | | | | | | |
| SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet, and protective clothing should be worn. | | | | | | | |
| SECTION 6: ACCIDENTA | L RELEASE MEASURES | | | | | | | |
| ACCIDENTAL RELEASE MEASURES: | For major spills call CHEMTREC : Toll free 1-800-424-9300 for interna | tional call 1-703-527-3 | 887. | | | | | |
| PERSONAL PRECAUTIONS: | Wear appropriate personal protective equipment recommended in SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION of this SDS. Immediately contact emergency personnel. Evacuate the area. Kee upwind avoiding inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection. | | | | | | | |
| ENVIRONMENTAL PRECAUTIONS: | This material may contaminate the environment without proper control and response to spills. Ensure spilled material does not come in contact with soil, waterway, drains, sewers, or other runoff that would further disperse the material. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air). Sources of ignition should be kept clear. | | | | | | | |
| METHODS FOR CONTAINMENT: | Use diking or capping to control migration. Contain and absorb large spillages with a non-flammable absorbent carrier (such as vermiculite, earth, or sand). DO NOT USE combustible materials such as sawdust. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Remove and properly dispose of residues. Dispose of via a licensed waste disposal contractor (See SECTION 13: DISPOSAL CONSIDERATIONS) Notify applicable government authorities if release is reportable. | | | | | | | |
| METHODS FOR CLEANING UP: | CONSIDERATIONS) Notify applicable government authorities if release is reportable. Only proceed with clean up by taking the appropriate personal protection measures required and ensure surrounding area does not contain further hazards that could worsen the spill, cause migration, or cause further harm (i.e. eliminate any ignition sources). Move any non-contaminated, non-leaking containers from the spill zone if it can be done safely. Dike, dam, or further restrict and stop active leaks without posing further damage or harm to individuals, the environment, and/or structures. Contain and collect spillage. See SECTION 13: DISPOSAL CONSIDERATIONS for disposal information and SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION for recommended Personal Protective Equipment (PPE). Obey all local, state, and federal regulations during clean up | | | | | | | |

| SECTION 7: HANDLING & STORAGE | | | | |
|-------------------------------|--|--|--|--|
| GENERAL: | Ideal storage temperature is 60-90°F (15-32°C). Handling and storage shall be in accordance with local, state/ provincial, or federal regulations. | | | |
| HANDLING: | Before opening this package, read and follow warning labels on all components. Avoid contact with the product or reaction mixture. Put on appropriate personal protective equipment. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded, use respirator when ventilation is inadequate. Avoid breathing aerosols, mists, and vapors. (See SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION for details). Do not ingest. Eating, drinking, and smoking shall be prohibited in areas where this material is handled, stored, and processed. Workers shall wash hands and face before eating, drinking, and smoking. Persons with a history of skin sensitization problems, asthma, allergies, or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes, on skin, or clothing. Keep in the original container or an approved alternative made from a compatible material. Keep tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse containers. | | | |
| STORAGE: | Keep container tightly closed and properly sealed when stored. Keep contents away from moisture. Due to reaction with water producing CO ₂ gas, a hazardous build-up of pressure could result if contaminated containers are resealed. DO NOT reseal contaminated containers. Uncontaminated containers, free of moisture, may be resealed and stored after purging the container with argon or nitrogen gas. | | | |

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:

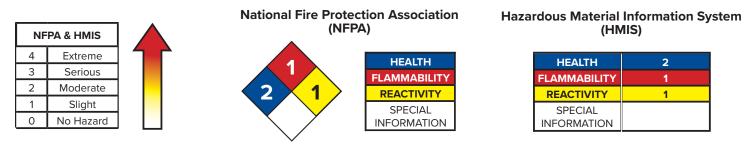
| XPOSURE LIMITS: | | | | | | |
|---|--|---|--|--|--|--|
| COMPONENT NAME | CAS NUMBER | EXPOSURE LIMITS | | | | |
| Isocyantes, reaction product of polyol with MDI | *Proprietary | Not available | | | | |
| 2,4'-Diphenylmethane diisocyanate | 5873-54-1 | Not available | | | | |
| 4,4'-Diphenylmethane diisocyanate | 101-68-8 | ACGIH TLV TWA: 0.005 ppm 8 hour(s) OSHA PEL CEIL: 0.02 ppm CEIL: 0.2 mg/m ³ NIOSH REL CEIL: 0.2 mg/m ³ 10 minute(s) CEIL: 0.02 ppm 10 minute(s) TWA: 0.05 mg/m ³ 10 hour(s) TWA: 0.005 ppm 10 hour(s) | | | | |
| Propylene carbonate | 108-32-7 | Not available | | | | |
| 2,2'-Diphenylmethane diisocyanate | 2536-05-2 | Not available | | | | |
| ENGINEERING CONTROLS: | | tion. If user operations generate dust, fumes, gas, vapor, or mist, use process ation, and other engineering controls to keep worker exposure to airborne mended or statutory limits. | | | | |
| HYGIENE MEASURES: | Wash hands, forearms, and face thoroughly with plenty of soap and water after handling chemical products, before eating, smoking, and using the restroom and at the end of the working period. Appropriate engineering, administrative, and other best practice decontamination control measures must be used to isolate contaminates on clothing and to prevent unintended migration of contaminants. Handle clothing and other potentially contaminated material appropriately and in compliance with local, state, and federal regulations in the process of removing, washing/cleaning, and reuse of these potentially contaminated materials. Ensure compliant use and location of eyewash station and safety showers. | | | | | |
| PERSONAL PROTECTIVE EQU | IPMENT (PPE): | | | | | |
| EYE PROTECTION: | to avoid exposure to liquid splash | n approved standard should be used when a risk assessment indicates this is necessary nes, mists, or dusts. If contact is possible, the following protection should be worn, unless or degree of protection: chemical splash goggles and/or face shield. | | | | |
| SKIN PROTECTION: | Personal protective equipment for the body should be selected based on the task being performed, the risks involved, and should be approved by an industrial hygiene specialist before handling this product. | | | | | |
| HANDS PROTECTION: | Chemical resistant gloves complying with applicable health and safety standards shall be worn when handling this product. Protective gloves are those made from butyl rubber, nitrile rubber, or polyvinyl alcohol. Appropriate hazard assessments in conjunction with an evaluation of the protection factors of chemical resistant gloves shall be performed to ensure the protective properties remain intact. It is noted that the time it takes to breakdown of protection factors for different glove manufacturers varies. In the case of mixtures, the protection factors of chemical resistant gloves may be impacted and deteriorate at unpredictable rates without understanding the impact of the substance and the specific protection factors of the chemical resistant gloves. | | | | | |
| RESPIRATORY PROTECTION: | Ensure adequate ventilation. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards such as OSHA 29CFR 1910.134, NIOSH (US), or CEN (EU). | | | | | |
| ENVIRONMENTAL EXPOSURE CONTROLS: | Dispose of raw and spent materials and wastes in compliance with all local, state, and federal regulations to prevent potential environmental contamination. Industrial air monitoring may be required to determine any potential environmental hazards to the atmosphere. This monitoring may result in the use of engineering and administrative controls such as filtering and scrubbing systems to mitigate or eliminate potential contaminants. | | | | | |

| SECTION 9: PHYSICAL & | CHEMICAL PROPE | RTIES | | | | |
|---|--|---|---------------------------------|---|--|--|
| PHYSICAL STATE: | Liquid | FLASH PO | INT: | >398°F (203°C) | | |
| COLOR: | Clear yellow | Clear yellow AUTO-IGNITION TEMPERATURE: Not availab | | | | |
| ODOR: | Slightly musty | musty DECOMPOSITION TEMPERATURE: Not avail | | | | |
| ODOR THRESHOLD: | Not available | EXPLOSIV | E LIMITS: | Not explosive | | |
| pH: | Not applicable | FLAMMAB | ILITY: | Not available | | |
| WATER SOLUBILITY: | Not available | BOILING P | OINT: | Not available | | |
| PARTITION COEFFICIENT: | Not available | BOILING R | ANGE: | Not available | | |
| SPECIFIC GRAVITY: | 1.10±0.005 g/cc @ 77° | F (25°C) MELTING/F | REEZING POINT: | Not available | | |
| VISCOSITY: | 550±50 mPa.s @ 77°F | (25°C) VAPOR PR | VAPOR PRESSURE: Not available | | | |
| EVAPORATION RATE: | Not available | VAPOR DE | VAPOR DENSITY: Not available | | | |
| VOC: | 0 g/L | RELATIVE | DENSITY: | 9.2±0.05 lbs/gal | | |
| SECTION 10: STABILITY & | | | | | | |
| STABILITY: | Stable when handled | and stored at temperatur | es 60-90°F (15-32°C). | | | |
| INCOMPATIBILITY: | Incompatible with wat | er, alcohols, amines, base | es, and acids. | | | |
| HAZARDOUS REACTION: | Exothermic reaction will occur when combined with sister component. Under normal conditions of storage and use, hazardous reactions will not occur. Reaction with water (moisture) produces CO ₂ gas. An exothermic reaction with materials containing active hydrogen groups can occur. The reaction becomes progressively more vigorous and can be violent at higher temperatures if the miscibility of the reaction partners is good or is supported by stirring or by the presence of solvents. This material is insoluble with and heavier than water. It sinks to the bottom, but reacts slowly at the interface. A solid water insoluble layer of polyurea is formed at the interface by liberating carbon dioxide. | | | | | |
| HAZARDOUS POLYMERIZATION: | Polymerization may occur at elevated temperatures in the presence of alkalis, tertiary amines and metal compounds. Under normal conditions of storage and use, hazardous polymerization should not occur. | | | | | |
| CONDITIONS TO AVOID: | Avoid moisture contar | mination and high temper | ratures. | | | |
| HAZARDOUS DECOMPOSITION: | May produce toxic fur source/flame. | nes of carbon dioxide, ca | rbon monoxide, and/or nitro | ogen oxides when near heat | | |
| SECTION 11: TOXICOLOG | Y INFORMATION | | | | | |
| ACUTE HEALTH EFFECTS: | | | | | | |
| EYE CONTACT: | Causes eye irritation with symptoms of reddening, tearing, stinging, and swelling. May cause temporary corneal injury. Vapor or aerosol may cause irritation with symptoms of burning and tearing. | | | | | |
| SKIN CONTACT: | Causes skin irritation with symptoms of reddening, itching, and swelling. Persons previously sensitized can experience allergic skin reaction with symptoms of reddening, itching, swelling, and rash. Cured material is difficult to remove. Contact with MDI can cause discoloration. | | | | | |
| INHALATION: | Diisocyanate vapors or mist at concentrations above the TLV or PEL can irritate (burning sensation) the mucous membranes in the respiratory tract (nose, throat, lungs) causing runny nose, sore throat, coughing, chest discomfort, shortness of breath and reduced lung function (breathing obstruction). Persons with a preexisting, nonspecific bronchial hyperreactivity can respond to concentrations below the TLV or PEL with similar symptoms as well as asthma attack or asthma-like symptoms. Exposure well above the TLV or PEL may lead to bronchitis, bronchial spasm and pulmonary edema (fluid in lungs). Chemical or hypersensitivity pneumonitis, with flu-like symptoms (e.g., fever, chills), has also been reported. These symptoms can be delayed up to several hours after exposure. These effects are usually reversible. The test atmosphere generated in the animal study is not representative of workplace environments, how the substance is placed on the market, and how it can reasonably be expected to be used. Therefore the test result cannot be directly applied for the purpose of assessing hazard. Based on expert judgment and the weight of the evidence, a modified classification for acute inhalation toxicity is justified. | | | | | |
| INGESTION: May cause irritation of the digestive tract. Symptoms may include abdominal pain, nausea, vomiting, and diarrhea. | | | | | | |
| ACUTE TOXICITY: | | | | | | |
| COMPONENT NAME | CAS NUMBER | LD ₅₀ Oral (mg/kg) | LD ₅₀ Dermal (mg/kg) | LC ₅₀ Inhalation (mg/L/4hrs) | | |
| | | >2000 (rat) | >9,400 (rabbit) | 0.40 / 1) | | |
| 2,4'-Diphenylmethane diisocyanate | 5873-54-1 | >2,000 (rat) | >9,400 (Tabbit) | 0.49 (rat) | | |
| 2,4'-Diphenylmethane diisocyanate 4,4'-Diphenylmethane diisocyanate | 5873-54-1 101-68-8 | >2,000 (rat) | >9,400 (rabbit) | 0.49 (rat) 0.49 (rat) | | |
| | | | | . , | | |

| POTENTIAL CHRONIC EFFECTS: | | | | | | | |
|--|---|---|---|--|---|--|--|
| CHRONIC EFFECTS: | isocyanates (asthma of well below the TLV or or asthmatic attack, or be life threatening. Sin can experience these persist for weeks and isocyanates has also permanent. Prolonge Animal tests and other | or asthma-like sym PEL. These sym puld be immediat nilar to many nor symptoms upon in severe cases been reported to d contact with sk r research indica on. This data rein | nptoms) i ptoms, w e or dela n-specific exposur for sever cause lu in can ca te that sk forces the | that may cau hich can incl yed up to se asthmatic re e to dust, col al years. Sen ng damage (use reddenir in contact wi | arge dose, certain individuals may develop sensitization to use them to react to a later exposure to isocyanates at levels ude chest tightness, wheezing, cough, shortness of breath everal hours after exposure. Extreme asthmatic reactions can asponses, there are reports that once sensitized an individual ld air, or other irritants. This increased lung sensitivity can sitization can be permanent. Chronic overexposure to (including fibrosis, decrease in lung function) that may be ng, swelling, rash, and, in some cases, skin sensitization. ith MDI can play a role in causing isocyanate sensitization event direct skin contact with isocyanates. Prolonged vapor | | |
| TARGET ORGANS: | Contains material w | /hich causes da | amage to | o the upper | r respiratory tract. | | |
| CARCINOGENICITY: | to the most recent info | ormation with NT s Group 3. Expos | P. The ma sure to lev | aterial is clas vels of MDI, s | al Toxic Program (NTP) Report of Carcinogens. Please refer sified on the International Agency for Research on Cancer significantly above the threshold limit value (0.005 ppm), was udy using rats. | | |
| MUTAGENICITY: | No known significa | nt effects or cri | tical haz | ards. | | | |
| TERATOGENICITY: | No known significant effects or critical hazards. | | | | | | |
| FERTILITY EFFECTS: | No known significa | nt effects or cri | tical haz | ards. | | | |
| DEVELOPMENTAL EFFECTS: | No known significa | nt effects or cri | tical haz | ards. | | | |
| MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE: | Existing respiratory/pulmonary and skin conditions may be aggravated by overexposure. | | | | | | |
| SECTION 12: ECOLOGICAL INFORMATION | | | | | | | |
| ENVIRONMENTAL EFFECTS: | IRONMENTAL EFFECTS: Based on a review of the individual components, this product has low ecotoxicity on aquatic organisms. When in contact with water an inert non-biodegradable solid will be produced. There is no evidence of bio-accumulation occurring. TION 13: DISPOSAL CONSIDERATION | | | | | | |
| SECTION 13: DISPOSAL C | ONSIDERATION | | | | | | |
| WASTE DISPOSAL: | By-product wastes or process waste generation should be eliminated and/or minimized when possible. Do not dispose of any contaminants into sanitary sewer systems, storm drains, Publicly Owned Treatment Works (POTW), or any other municipal waste water treatment facility without written approval and agreements for processing wastes with such enterprises. Dispose of raw or unused materials, wastes, and/or by-products in accordance with all applicable local, state, and federal laws. Employ the expertise and knowledge of qualified personnel or contractors in disposal of any and all variants of this product. Ensure material containers are cleaned to the applicable standards before recycling, disposing, or reusing containers. Take special precautions to avoid any cross contamination and potential unknown effects from mixing with other substances. Refer to SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION of this document for personal protection requirements. Disposal to the environment or in violation of environmental protection laws and statutes must be prevented. | | | | | | |
| SECTION 14: TRANSPORT INFORMATION | | | | | | | |
| PROPER SHIPPING NAME: | | | | | | | |
| DOT: | Other regulated substance, liquid, n.o.s. (contains: 4,4'-Diphenylmethane diisocyanate) *Single containers less than 5,000 lbs. are not regulated. | | | | | | |
| TDG: | Not regulated. | | | | | | |
| IMDG: | Not regulated. | | | | | | |
| IATA: | Not regulated. | | | | | | |
| This product could potentially contaminate aquatic and terrestrial environments if not handled in accordance with all precautions, regulations, and laws. Users, transporters, and all other applicable entities must review, follow, and apply any and all necessary precautions and procedures to eliminate and/or minimize potential hazards or risks to aquatic or terrestrial environments. | | | | | | | |
| REGULATORY INFORMATION | UN NUMBER | CLASSES | PG* | LABEL | ADDITIONAL INFORMATION | | |
| DOT Classification | NA3082 | 9 | 111 | | Reportable quantity 5,000 lbs. (2,268 kg) Single containers less than 5,000 lbs. are not regulated. | | |
| *PG: Packaging group | | | • | | | | |

| Hazardous Air Pollutants (HAPs): 4,4'-Diphenylmethare diisocyanate 101-68-8 1-15% Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances. CONCENTRATION SARA 313 Form R - Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATION SARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. 101-68-8 1-15% CERCLA Hazardous substances: Immediate (acute) nearth hazard. Section 302 Section 313 Section 304 Reportable Quant 4,4'-Diphenylmethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs | 3 | | | | | | | | |
|--|--|---|---------------------------------------|---------------------|---------------------|------------------------|--|--|--|
| TSCA 5a (2): No components listed. TSCA 5e: No components listed. TSCA 12b: No components listed. TSCA 12b: No components listed. Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): COMPONENT CAS NUMBER CONCENTRATIO Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances. SARA 313 Form R - Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATIO 3ARA 311/312 hazard identification: COMPONENT CAS NUMBER CONCENTRATIO 5ARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. Delayed (chronic) health hazard. 101-68-8 1-15% CERCLA Hazardous substances: Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs STATE REGULATIONS: COMPONENT CAS NUMBER CONCENTRATIO PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMPONENT CAS NUMBER CONCENTRATIO 2.4'-Diphenylmethane disocyanate 101-68-8 1-15% 1.15% California Prop 65: Concentration Section 302 Section 313 Section 304 Reportable Quant 5.000 lbs <t< th=""><th></th><th></th><th></th><th></th><th></th><th></th></t<> | | | | | | | | | |
| TSCA 5e: No components listed. TSCA 12b: No components listed. Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): COMPONENT CAS NUMBER CONCENTRATIO 4.4'-Diphenylmethanen diisocyanate 101-68-8 1.15% Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances. CONCENTRATIO SARA 315 Form R - Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATIO SARA 311/312 hazard identification: Immediate (acute) health hazard. Immediate (acute) health hazard. CONCENTRATIO CERCLA Hazardous substances: Immediate (acute) health hazard. Delayed (chronic) health hazard. Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs STATE REGULATIONS: E Intersection 302 Section 313 Section 304 Reportable Quant 5,000 lbs State REGULATIONS: PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMPONENT CAS NUMBER CONCENTRATIO 2,4'-Diphenylmethanen diisocyanate 5873-54-1 1-15% California Prop 65: Tbi product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a avarning under the statute. | TSCA 8b Inventory: | All components are | e listed on the TSCA i | nventory or are exe | mpt. | | | | |
| TSCA 12b: No components listd. Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): COMPONENT CAS NUMBER CONCENTRATION Clean Air Act - Ozone Depleting Substances (ODS): This product does of contain nor is it manufactured with ocore depleting substances. 115% SARA 313 Form R - Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATION SARA 31/312 hazard identification: CONcentration Section 302 Section 313 Section 304 Reportable Quant Reportable Quant 1-15% Reportable Quant 1-15% CAS NUMBER Concentration Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs State REGULATIONS: Concentration Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs State REGULATIONS: Concentration Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs Section 304 Reportable Quant 5,000 lbs State REGULATIONS: Concentration Section 302 Section 313 Section 304 Reportable Quant 5,000 lbs California Prop 65: Inis product contairs no listed substances known to the State of California to -use case, birth defects, or other productive harm, alterial causing other toxic effects (very toxic). WHMIS Class D | TSCA 5a (2): | No components listed. | | | | | | | |
| Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs): COMPONENT CAS NUMBER CONCENTRATIO 4.4'-Diphenylmethane diisocyanate 101-68-8 115% Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it manufactured with ozone depleting substances. CONCENTRATIO SARA 313 Form R - Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATIO 3.4'-Diphenylmethane diisocyanate 101-68-8 1-15% Interdiate (acute) health hazard. Delayed (chronic) health hazard. Delayed (chronic) health hazard. CONCENTRATIO CERCLA Hazardous substances: Immediate (acute) health hazard. Delayed (chronic) health hazard. Section 302 Section 313 Section 304 Reportable Quant 4.4'-Diphenylmethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: V COMPONENT CAS NUMBER CONCENTRATIO 2.4'-Diphenylmethane diisocyanate 101-68-8 1-15% 1-15% A.4'-Diphenylmethane diisocyanate 5873-54-1 1-15% SATE REGULATIONS: Z4'-Diphenylmethane diisocyanate 101-68-8 1-15% California Prop 65: This product contains no liste | TSCA 5e: | No components list | No components listed. | | | | | | |
| Hazardous Air Pollutants (HAPs): 4.4'-Diphenylmethane diisocyanate 101-68-8 1.15% Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it muractured with ozone depleting substances. CONCENTRATION SARA 313 Form R - Reporting Requirements: COMPVENT CAS NUMBER CONCENTRATION SARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. Interview Section 302 Section 313 Section 304 Reportable Quant 4.4'-Diphenylmethane diisocyanate Not listed Listed Not listed 5,000 lbs SATA 211/312 hazard identification: Concentration Section 302 Section 313 Section 304 Reportable Quant 4.4'-Diphenylmethane diisocyanate 1.15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: Concentration Section 302 Section 313 Section 304 Reportable Quant 4.4'-Diphenylmethane diisocyanate 1.15% Qiafornia Prop 65: Imperiate Section 302 Section 313 Section 304 Reportable Quant 4.4'-Diphenylmethane diisocyanate 1.15% California Prop 65: Imperiate Section 302 Section 313 Section 314 1.15% California Prop 65: This product contais no listed | TSCA 12b: | No components listed. | | | | | | | |
| 4.4-Dipnenyimetnane diisocyanate 101-8-8 1-15% Clean Air Act - Ozone Depleting Substances (ODS): This product does not contain nor is it murifactured with over depleting substances. SARA 313 Form R - Reporting Requirements: COMENTRATION A4'-Diphenyimethane diisocyanate 101-6-8 CONCENTRATION SARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. 101-6-8 1.15% CERCLA Hazardous substances: Immediate (acute) health hazard. Section 302 Section 313 Section 304 Reportable Quantification 4.4'-Diphenyimethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: FENNSYLVANIA/NEW JERSEY/ CONCENTRATION 2,4'-Diphenyimethane diisocyanate 5,4'-1 1.15% Q4.4'-Diphenyimethane filsocyanate 1.15% Isiocyanate 5,000 lbs 5,000 lbs STATE REGULATIONS: FENNSYLVANIA/NEW JERSEY/ CONCENTRATION 2,4'-Diphenyimethane diisocyanate 5,8'-1 1.15% Q4.4'-Diphenyimethane diisocyanate 1,15% Isiocyanate 5,8'-1 1.15% 1.15% Galifornia Prop 65: This product contairs no listed substances known to the State of Cali | Clean Air Act Section 112(b) | СОМР | ONENT | CAS N | UMBER | CONCENTRATION | | | |
| Depleting Substances (ODS): Mathematical Substances (ODS): SARA 313 Form R · Reporting Requirements: COMPONENT CAS NUMBER CONCENTRATION SARA 311/312 hazard identification: (4'-Diphenylmeth diisocyanate 101-68-8 1.15% 1.15% SARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. 1.15% 1.15% 1.15% CERCLA Hazardous substances: Concentration Section 302 Section 313 Section 304 Reportable Quant 4,4'-Diphenylmethane diisocyanate 1.15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: | Hazardous Air Pollutants (HAPS): | 4,4'-Diphenylmetha | ane diisocyanate | 101- | 1-15% | | | | |
| Requirements: Interview | | This product does i | not contain nor is it m | anufactured with o | zone depleting subs | tances. | | | |
| 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% SARA 311/312 hazard identification: Immediate (acute) health hazard. Delayed (chronic) health hazard. Section 313 Section 304 Reportable Quant CERCLA Hazardous substances: Concentration Section 302 Section 313 Section 304 Reportable Quant 4,4'-Diphenylmethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: Vertable Quant 1-15% Quant 5,000 lbs Section 313 Section 304 Reportable Quant PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMCMPONENT CAS > MBER CONCENTRATION 2,4'-Diphenylmethane diisocyanate 101-68-8 1-15% 1-15% 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% 1-15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other revoluctive harm, at levels which would review awarning unter the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS Class D-2A: Material causing other toxic effects (very toxic). | | СОМР | ONENT | CAS N | UMBER | CONCENTRATION | | | |
| identification: Delayed (chronic) health hazard. CERCLA Hazardous substances: Concentration Section 302 Section 313 Section 304 Reportable Quant 4,4'-Diphenylmethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMENENT CAS NBER CONCENTRATION (2,4'-Diphenylmethare diisocyanate) 2,87-54-1 1.15% 2,4'-Diphenylmethare diisocyanate 101-68-8 1.15% 1.15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute. VirthIIS Class D-1A: Material causing timediate and serious toxic effects (very toxic). WHMIS (Canada): WHMIS Class D-1A: Material causing other toxic effects (very toxic). WithIIS class D-2A: Material causing other toxic effects (very toxic). | Requirements: | 4,4'-Diphenylmetha | ane diisocyanate | 101- | 1-15% | | | | |
| Component Concentration Section 302 Section 313 Section 304 Reportable Quart 4,4'-Diphenylmethane diisocyanate 1.15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMPONENT CAS >UMBER CONCENTRATION (2,4'-Diphenylmethane diisocyanate) 587-54-1 1.15% 1.15% 2,4'-Diphenylmethane diisocyanate 1.01 - 68-8 1.15% </th <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> | | | | | | | | | |
| A,4'-Diphenylmethane diisocyanate 1-15% Not listed Listed Not listed 5,000 lbs STATE REGULATIONS: COMPONENT CAS NMBER CONCENTRATION PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMPONENT CAS NMBER CONCENTRATION California Prop 65: This product contairs no listed substances known to the State of California to case cancer, birth defects, or other reproductive harm, at levels which would require a warning unter the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS class D-1A: Material causing immediate and serious toxic effects (very toxic). | CERCLA Hazardous substances: | | | | | | | | |
| STATE REGULATIONS: COMPONENT CAS NUMBER CONCENTRATION PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: 2,4'-Diphenylmethane diisocyanate 5873-54-1 1-15% 2,4'-Diphenylmethane diisocyanate 101-68-8 1-15% 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). | Component | Concentration | Section 302 | Section 313 | Section 304 | Reportable Quantity | | | |
| PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK: COMPONENT CAS NUMBER CONCENTRATION 2,4'-Diphenylmethane diisocyanate 5873-54-1 1-15% 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at Levels which would require a warning unter the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing interview of the state of california to cause. State of the state of california to cause cancer, birth defects (very toxic). | 4,4'-Diphenylmethane diisocyanate | 1-15% | Not listed | Listed | Not listed | 5,000 lbs | | | |
| MASSACHUSETTS - RTK: 2,4'-Diphenylmethane diisocyanate 5873-54-1 1-15% 2,4'-Diphenylmethane diisocyanate 101-68-8 1-15% 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS Class D-2A: Material causing other toxic effects (very toxic). | STATE REGULATIONS: | | | | | | | | |
| 2,4'-Diphenylmethane diisocyanate 5873-54-1 1-15% 4,4'-Diphenylmethane diisocyanate 101-68-8 1-15% California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). | | COMPONENT | | CAS NUMBER | | CONCENTRATION | | | |
| California Prop 65: This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute. CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS (Canada): WHMIS Class D-2A: Material causing other toxic effects (very toxic). | MASSACHUSETTS - RTK: | 2,4'-Diphenylmethane diisocyanate | | 5873-54-1 | | 1-15% | | | |
| CANADA WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS (Canada): WHMIS Class D-2A: Material causing other toxic effects (very toxic). | | 4,4'-Diphenylmethane diisocyanate | | 101-68-8 | | 1-15% | | | |
| WHMIS (Canada): WHMIS Class D-1A: Material causing immediate and serious toxic effects (very toxic). WHMIS Class D-2A: Material causing other toxic effects (very toxic). | California Prop 65: | | | | | | | | |
| WHMIS Class D-2A: Material causing other toxic effects (very toxic). | CANADA | | | | | | | | |
| CEPA DSL: All components are listed or exempted. | WHMIS (Canada): | | | | | | | | |
| | | | | | | | | | |
| This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains a the information required by the Controlled Products Regulations. | This product has been classified in the information required by the Co | accordance with the ntrolled Products Re | e hazard criteria of th gulations. | e Controlled Produ | ucts Regulations an | d the SDS contains all | | | |
| INTERNATIONAL LISTS: | INTERNATIONAL LISTS: | | | | | | | | |
| Australia inventory (AICS): All components are listed or exempted. | Australia inventory (AICS): | All components are listed or exempted. | | | | | | | |
| China inventory (IECSC): All components are listed or exempted. | China inventory (IECSC): | All components are listed or exempted. | | | | | | | |
| Japan inventory: All components are listed or exempted. | Japan inventory: | All components are | e listed or exempted. | | | | | | |
| Korea inventory: All components are listed or exempted. | Korea inventory: | All components are | e listed or exempted. | | | | | | |
| | - | All components are listed or exempted. | | | | | | | |
| New Zealand inventory of Chemicals (NZIoC): All components are listed or exempted. | New Zealand inventory of | All components are | e listed or exempted. | | | | | | |

SECTION 16: OTHER INFORMATION



Note: The customer is responsible for determining the PPE code for this material. At the time of publishing, the NFPA/HMIS and the New GHS scale had opposite scales of severity. Check the most recent publications for current information.

| For Your Protection: | The information and recommendations in this publication is to the best of our knowledge, reliable. The toxicity and risk characteristics of products made by SPI will necessarily differ from the toxicity and risk characteristics that occur when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. The user is responsible to comply with all applicable federal, provincial or municipal laws and regulations. SPI MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. |
|--------------------------|---|
| Preparation Information: | This SDS supersedes ALL previous SDS versions. |