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SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

:

Trade name

Pliogrip™ 7779 B/220 ADHESIVE ™ Trademark, Bostik or its subsidiaries, registered in various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Adhesives Industrial chemical

| Details of the supplier of the safety data sheet Bostik, Inc. 11320 W Watertown Plank Road Wauwatosa, WI 53226 United States of America (USA) +1 (800) 843-0844 (Domestic Toll Free); +1 (414) 774-2250 (International) | Emergency telephone number Chemtrec 1-800-424-9300, outside US 1-703- 527-3887 Regulatory information Rocky Mountain Poison center: 1-866-767-5089 |
|--|--|
| EHSproductsafety.US@bostik.com | |

SECTION 2. HAZARDS IDENTIFICATION

| GHS Classification Acute toxicity (Inhalation) | : | Category 4 |
|---|---|---------------------------------|
| Skin irritation | : | Category 2 |
| Eye irritation | : | Category 2A |
| Respiratory sensitization | : | Category 1 |
| Skin sensitization | : | Category 1 |
| Reproductive toxicity | : | Category 2 |
| Specific target organ toxicity - single exposure | : | Category 3 (Respiratory system) |

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| Specific target organ toxicity - repeated exposure (Inhalation) | : Category 2 (Respiratory system, Respiratory Tract) |
|---|---|
| GHS label elements Hazard pictograms | |
| Signal Word | : Danger |
| Hazard Statements | Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs (Respiratory system, Respiratory Tract) through prolonged or repeated exposure if inhaled. |
| Precautionary Statements | Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Wash skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection. Response: IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON 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 exposed or concerned: Get medical advice/ attention. If skin irritation or rash occurs: Get medical advice/ attention. If eye irritation persists: Get medical advice/ attention. |

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Take off contaminated clothing and wash before reuse. **Storage:**

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

The following percentage of the mixture consists of ingredient(s) with unknown acute inhalation toxicity: 7.3084 %

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

PART A Substance / Mixture

: Mixture

| Hazardous components | |
|----------------------|--|

| Hazardous components | | | |
|----------------------|----------------|---|--------------------|
| Chemical name | CAS-No. | Classification | Concentration (%) |
| POLYMER | 254504001-5759 | Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1A; H334 Skin Sens. 1A; H317 STOT SE 3; H335 STOT RE 2; H373 | >= 10.00 - < 15.00 |
| ALUMINUM SILICATES | 254504001-5709 | This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012). | >= 10.00 - < 15.00 |
| URETHANE PREPOLYMER | 800986-5572P | Resp. Sens. 1; H334 | >= 5.00 - < 10.00 |

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| | Skin Sens. 1; H317 | |
|--|--------------------|--|
| | | |

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

| 4,4'-DIPHENYLMETHANE DIISOCYANATE | 101-68-8 | Comb Dust Acute Tox. 4; H332 | 35.5153 |
|--------------------------------------|------------|---------------------------------------|---------|
| | | Skin Irrit. 2; H315 | |
| | | Eye Irrit. 2A; H319 | |
| | | Resp. Sens. 1; H334 | |
| | | Skin Sens. 1; H317 | |
| | | STOT SE 3; H335 | |
| | | STOT RE 2; H373 | |
| | | | |
| TALC | 14807-96-6 | Not a hazardous substance or mixture. | 10.224 |
| PROPYLENE CARBONATE | 108-32-7 | Eye Irrit. 2A; H319 | 1.4964 |

PART B

| Substance / Mixture | : | Mixture | |
|---------------------|---|---------|--|
| | | | |

Chemical nature : Defatter

| Hazardous components | | | |
|----------------------|------------|-----------------|-------------------|
| Chemical name | CAS-No. | Classification | Concentration (%) |
| | | | |
| TALC | 14807-96-6 | Not a hazardous | 25.002 |
| | | | |

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| | substance or mixture. | |
|------------|--|-------|
| PIPERAZINE | Flam. Sol. 1; H228 Comb Dust Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1B; H334 Skin Sens. 1B; H317 Repr. 2; H361 | 0.767 |

SECTION 4. FIRST AID MEASURES

| General advice | Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended. |
|-------------------------|---|
| If inhaled | Move to fresh air. Call a physician or poison control centre immediately. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice. |
| In case of skin contact | Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use. |
| In case of eye contact | Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. |
| If swallowed | Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. |

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| Most important symptoms and effects, both acute and delayed | Pulmonary edema may be delayed. Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) Cough Headache chest pain lung edema (fluid buildup in the lung tissue) Difficulty in breathing Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure if inhaled. |
|---|---|
| Notes to physician | : No hazards which require special first aid measures. |

SECTION 5. FIREFIGHTING MEASURES

| Suitable extinguishing media | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical |
|--------------------------------|--|
| Unsuitable extinguishing media | : High volume water jet |
| Hazardous combustion products | Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx) Hydrogen cyanide (hydrocyanic acid) Isocyanates Aldehydes Ketones Chlorine compounds |

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| | Halogenated hydrocarbons Hydrocarbons |
|---|---|
| Specific extinguishing methods | : |
| | Product is compatible with standard fire-fighting agents. |
| Further information | : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : In the event of fire, wear self-contained breathing apparatus. |

SECTION 6. ACCIDENTAL RELEASE MEASURES

| Personal precautions, protective equipment and emergency procedures | e personal protective equipment. Isure adequate ventilation. Prsons not wearing protective equipment Im area of spill until clean-up has bee | |
|---|---|--------------------------|
| Environmental precautions | event product from entering drains. event further leakage or spillage if sa he product contaminates rivers and la spective authorities. | |
| Methods and materials for containment and cleaning up | ak up with inert absorbent material (e id binder, universal binder, sawdust). eep in suitable, closed containers for o | |
| Other information | omply with all applicable federal, state | , and local regulations. |

SECTION 7. HANDLING AND STORAGE

| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
|---|---|---|
| Advice on safe handling | : | Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being |

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| | | used. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations. |
|--|---|--|
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. |
| Further information on storage stability | : | No decomposition if stored and applied as directed. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

PART A

| Components | CAS-No. | Value type | Control | Basis |
|--------------------|------------|------------|--------------------|-------|
| | | (Form of | parameters / | |
| | | exposure) | Permissible | |
| | | | concentration | |
| ALUMINUM SILICATES | 254504001- | TWA | 1 mg/m3 | ACGIH |
| | 5709 | | Respirable | |
| | | | particulate matter | |
| | | | (Aluminium) | |

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

| 4,4'-DIPHENYLMETHANE DIISOCYANATE | 101-68-8 | TWA | 0.005 ppm | ACGIH |
|--------------------------------------|------------|-----|---|-----------|
| TALC | 14807-96-6 | TWA | 20 Million particles per cubic foot Dust | OSHA Z-3 |
| | | TWA | 2 mg/m3 respirable dust fraction | OSHA P0 |
| | | TWA | 2 mg/m3 Respirable | NIOSH REL |
| | | PEL | 2 mg/m3 | CAL PEL |

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| | | Respirable dust | |
|--|-----|---|-------|
| | TWA | 2 mg/m3 Respirable particulate matter | ACGIH |

Hazardous components without workplace control parameters

PART A

| Components | CAS-No. |
|---------------------|------------|
| POLYMER | 254504001- |
| | 5759 |
| URETHANE PREPOLYMER | 800986- |
| | 5572P |

PART A

| PROPYLENE CARBONATE | 108-32-7 |
|---------------------|----------|
| | |

PART B

| Components | CAS-No. | Value type (Form of | Control parameters / | Basis |
|--------------|------------|------------------------|-----------------------------------|-----------|
| | | exposure) | Permissible | |
| | | , , | concentration | |
| TALC | 14807-96-6 | TWA | 20 Million particles per cubic | OSHA Z-3 |
| | | | foot | |
| | | | Dust | |
| | | TWA | 2 mg/m3 | OSHA P0 |
| | | | respirable dust fraction | |
| | | TWA | 2 mg/m3 | NIOSH REL |
| | | | Respirable | |
| | | PEL | 2 mg/m3 | CAL PEL |
| | | | Respirable dust | |
| | | TWA | 2 mg/m3 | ACGIH |
| | | | Respirable particulate matter | |
| CARBON BLACK | 1333-86-4 | TWA | 3 mg/m3 | ACGIH |
| | | | Inhalable | |
| | | | particulate matter | |
| | | TWA | 3.5 mg/m3 | NIOSH REL |
| | | TWA | 3.5 mg/m3 | OSHA Z-1 |
| | | TWA | 3.5 mg/m3 | OSHA P0 |
| | | PEL | 3.5 mg/m3 | CAL PEL |
| | | TWA | 0.1 mg/m3 (PAHs) | NIOSH REL |
| PIPERAZINE | 110-85-0 | TWA | 0.03 ppm | ACGIH |

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| | Inhalable fraction and vapor (piperazine) | | |
|---|---|--|--|
| Hazardous components without workplace control parameters | | | |

PART B

| Components | CAS-No. |
|------------|----------|
| PIPERAZINE | 110-85-0 |

| Engineering measures | : | Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects. |
|--|----------|---|
| Personal protective equipme Respiratory protection | ent : | Wear a positive-pressure supplied-air respirator with full facepiece. |
| Hand protection Material Break through time Glove thickness | : | butyl-rubber 480 min > 0.5 mm |
| Remarks | : | The exact break through time can be obtained from the protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. |
| Eye protection | : | Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist. |
| Skin and body protection | : | Wear as appropriate: Impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Discard gloves that show tears, pinholes, or signs of wear. Wear resistant gloves (consult your safety equipment supplier). |
| Hygiene measures | : | Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke. |

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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

PART A

| Appearance | : viscous |
|---|--|
| Physical state | : liquid |
| Colour | : beige |
| Odour | : mild, musty |
| Odour Threshold | : No data available |
| рН | : substance/mixture is non-soluble (in water) |
| Melting point/freezing point | : not determined |
| Boiling point/boiling range | : > 392 °F / > 200 °C |
| Flash point | : >100 °C |
| Evaporation rate | : <1 n-Butyl Acetate = 1 |
| Flammability (solid, gas) | : |
| | not determined |
| Flammability (liquids) | : not determined |
| Flammability (liquids) Upper explosion limit Lower explosion limit Vapour pressure | Upper explosion limit not determined Lower explosion limit not determined < 0.01333 hPa (25 °C) |
| Relative vapour density | : > 1(Air = 1.0) |
| Relative density | : No data available |
| Density | |
| Density | : 1.288 g/cm3 (20 °C) |

Solubility(ies)

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| Water solubility | : practically insoluble |
|--|-------------------------|
| Solubility in other solvents | : No data available |
| Partition coefficient: n- octanol/water | : not determined |
| Auto-ignition temperature | : No data available |
| Thermal decomposition | : No data available |
| Viscosity Viscosity, dynamic | : ca. 20,000 mPa.s |
| Viscosity, kinematic | : not determined |
| Oxidizing properties | : Not applicable |
| Molecular weight | : No data available |

PART B

| Appearance | : | liquid |
|------------------------------|---|---|
| Physical state | : | liquid |
| Colour | : | black |
| Odour | : | No information available. |
| Odour Threshold | : | No data available |
| рН | : | substance/mixture is non-soluble (in water) |
| Melting point/freezing point | : | not determined |
| Boiling point/boiling range | : | not determined |
| Flash point | : | 93.4 °C |
| Evaporation rate | : | not determined |
| Upper explosion limit | : | Upper explosion limit not determined |
| Lower explosion limit | : | Lower explosion limit not determined |
| Vapour pressure | : | 3 hPa (25 °C) |

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| | Calculated Vapor Pressure |
|--|---------------------------|
| Relative vapour density | : not determined |
| Relative density | : 1.26 (25 °C) |
| Density | : ca. 1.26 g/cm3 (20 °C) |
| Solubility(ies) | |
| Water solubility | : not determined |
| Solubility in other solvents | : No data available |
| Partition coefficient: n- octanol/water | : not determined |
| Thermal decomposition | : No data available |
| Viscosity Viscosity, dynamic | : 23,000 mPa.s |
| Viscosity, kinematic | : not determined |
| Oxidizing properties | : Not applicable |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : No decomposition if stored and applied as directed. |
|------------------------------------|---|
| Chemical stability | : Stable under recommended storage conditions. |
| Possibility of hazardous reactions | : Product will not undergo hazardous polymerization. |
| Conditions to avoid | : Freezing temperatures. Heat Exposure to moisture |
| Incompatible materials | : Acids Alcohols aluminum Amines Ammonia Bases |

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Copper alloys fluorides Iron isocyanates Oxidizing agents oxidizers Phosphorus compounds strong alkalis strong reducing agents water Zinc Humid air

Hazardous decomposition products

Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) Hydrocarbons Acetone

SECTION 11. TOXICOLOGICAL INFORMATION

| Information on likely routes of exposure | : | Inhalation Skin contact Ingestion Eye contact |
|---|---|--|
| Acute toxicity Harmful if inhaled. <u>Components:</u> POLYMER: | | |
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425 GLP: yes |
| Acute inhalation toxicity | : | Symptoms: Increased heart rate, Rapid respiration, Drowsiness, Headache, Nausea, Vomiting Assessment: The component/mixture is classified as acute inhalation toxicity, category 4. |
| Acute dermal toxicity | : | (Rabbit): > 9,400 mg/kg Remarks: Information given is based on data obtained from similar substances. |

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| URETHANE PREPOLYMER: Acute inhalation toxicity | : Assessment: Toxic effects cannot be excluded | |
|---|--|--|
| Components: 4,4'-DIPHENYLMETHANE D Acute oral toxicity | | |
| Acute inhalation toxicity | LC50 (Rat): > 2.24 mg/l Exposure time: 1 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: The component/mixture is classified as acute inhalation toxicity, category 4. | |
| Acute dermal toxicity | LD50 (Rabbit): > 7,900 mg/kg Symptoms: Redness, Swelling of tissue, Itching, Blistering, Pain | |
| TALC: Acute oral toxicity | : LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 423 | |
| PROPYLENE CARBONATE: Acute oral toxicity | | |
| Acute inhalation toxicity | : Assessment: Toxic effects cannot be excluded | |
| Acute dermal toxicity | : LD50 (Rabbit): > 24 g/kg | |
| PIPERAZINE: Acute oral toxicity | : LD50 (Rat): ca. 2,600 mg/kg Method: OECD Test Guideline 401 | |
| Acute inhalation toxicity | LC0 (Rat, male and female): 1.61 mg/l Exposure time: 8 h Test atmosphere: vapour | |
| Skin corrosion/irritation Causes skin irritation. <u>Product:</u> Remarks: May cause skin irritation and/or dermatitis. | | |
| <u>Components:</u> POLYMER: | | |

POLYMER: Result: Irritating to skin.

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Remarks: Information given is based on data obtained from similar substances.

ALUMINUM SILICATES: Result: Slight, transient irritation

URETHANE PREPOLYMER: Result: No skin irritation

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE: Result: Irritating to skin.

TALC: Species: reconstructed human epidermis (RhE) Result: No skin irritation

PROPYLENE CARBONATE: Species: Rabbit Method: OECD Test Guideline 404 Result: No skin irritation

PIPERAZINE: Result: Corrosive after 3 minutes to 1 hour of exposure

Serious eye damage/eye irritation

Causes serious eye irritation. <u>Product:</u> Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

POLYMER: Result: Irritating to eyes.

ALUMINUM SILICATES: Result: Slight, transient irritation

URETHANE PREPOLYMER: Result: No eye irritation

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE: Result: Irritating to eyes.

TALC: Species: Rabbit Result: Slight, transient irritation Method: OECD Test Guideline 405

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PROPYLENE CARBONATE: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405

PIPERAZINE: Result: Corrosive

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction. Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Components: POLYMER: Test Type: Maximisation Test Species: Guinea pig Assessment: May cause sensitisation by skin contact.

Assessment: May cause sensitisation by inhalation. Result: The product is a respiratory sensitiser, sub-category 1A.

URETHANE PREPOLYMER: Assessment: May cause sensitisation by skin contact.

Result: The product is a skin sensitiser, sub-category 1A.

Assessment: May cause sensitisation by inhalation.

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE: Assessment: May cause sensitisation by inhalation.

Assessment: May cause sensitisation by skin contact.

TALC: Test Type: Maximisation Test Species: Guinea pig Assessment: Did not cause sensitisation on laboratory animals. Method: OECD Test Guideline 406

PIPERAZINE: Assessment: The product is a respiratory sensitiser, sub-category 1B.

Assessment: The product is a skin sensitiser, sub-category 1B.

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| Germ cell mutagenicity Not classified based on available information. <u>Components:</u> | | |
|--|--|--|
| POLYMER: Genotoxicity in vitro | : Test Type: Ames test Result: negative Remarks: Information given is based on data obtained from similar substances. | |
| Genotoxicity in vivo | Test Type: In vivo micronucleus test Test species: Rat Method: OECD Test Guideline 474 Remarks: Information given is based on data obtained from similar substances. | |
| Components: | | |
| TALC: Genotoxicity in vitro | Test Type: In vitro gene mutation study in bacteria Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Result: negative | |
| | Test Type: In vitro gene mutation study in bacteria Test species: Saccharomyces cerevisiae Metabolic activation: with and without metabolic activation Result: negative | |
| Genotoxicity in vivo | : Test Type: dominant lethal test Test species: Rat (male) Cell type: Bone marrow Result: negative | |
| PROPYLENE CARBONATE: Genotoxicity in vitro | Test Type: Ames test Test species: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative | |
| Genotoxicity in vivo | Test Type: Micronucleus test Test species: Mouse Cell type: Bone marrow Method: OECD Test Guideline 474 Result: negative | |
| Carcinogenicity | le information | |

Not classified based on available information. **Product:**

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Carcinogenicity -Assessment : Methylene bisphenylisocyanate (MDI) aerosol has been reported to be irritating to lungs at a concentration of 1 mg/m3 with no effect observed at 0.2 mg/m3. Although MDI has been reported to cause an increase in non-carcinogenic lung tumors and a single carcinogenic lung tumor at very high concentrations (6 mg/m3), it is not classified as a carcinogen by IARC, NTP or OSHA.

Reproductive toxicity

 Suspected of damaging fertility or the unborn child.

 Components:

 PIPERAZINE:

 Reproductive toxicity

 Assessment

Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause respiratory irritation.

Components: POLYMER: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause respiratory irritation.

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE: Exposure routes: Inhalation Target Organs: Respiratory system Assessment: May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs (Respiratory system, Respiratory Tract) through prolonged or repeated exposure if inhaled. <u>Components:</u> POLYMER: Exposure routes: Inhalation Target Organs: Respiratory Tract Assessment: May cause damage to organs through prolonged or repeated exposure.

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE: Exposure routes: Inhalation Target Organs: Respiratory system Assessment: May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information. Further information Product:

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Remarks: No data available

| Carcinogenicity: IARC | Group 2B: Possibly carcinogenic to humans | |
|--------------------------|--|-----------|
| | CARBON BLACK | 1333-86-4 |
| OSHA | No component of this product pr equal to 0.1% is on OSHA's list | |
| NTP | No component of this product pr equal to 0.1% is identified as a k by NTP. | 3 |

SECTION 12. ECOLOGICAL INFORMATION

| Ecotoxicity <u>Product:</u> Ecotoxicology Assessment Short-term (acute) aquatic hazard | classified based on ava | ailable information. |
|--|--|--|
| Long-term (chronic) aquatic hazard | classified based on ava | ailable information. |
| <u>Components:</u> POLYMER: Toxicity to fish | osure time: 96 h t Type: semi-static test | anese medaka)): > 3,000 mg/l n is based on data obtained from |
| Toxicity to daphnia and other aquatic invertebrates | aphnia magna (Water fle osure time: 24 h t Type: static test hod: OECD Test Guide narks: Information giver ilar substances. | |
| Toxicity to algae | EC (Desmodesmus sub point: Growth inhibitior osure time: 72 h t Type: static test hod: OECD Test Guide | |

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| | Remarks: Information given is based on data obtained from similar substances. |
|--|--|
| 4,4'-DIPHENYLMETHANE DIIS Toxicity to fish | OCYANATE: : LC50 (Oryzias latipes (Orange-red killifish)): > 3,000 mg/l Exposure time: 96 h Test Type: semi-static test Remarks: Information given is based on data obtained from similar substances. |
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 24 h Test Type: static test Method: OECD Test Guideline 202 Remarks: Information given is based on data obtained from similar substances. |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | NOEC (Daphnia magna (Water flea)): > 10 mg/l Exposure time: 21 d End point: Reproduction Test Test Type: semi-static test Method: OECD Test Guideline 211 Remarks: Information given is based on data obtained from similar substances. |
| PROPYLENE CARBONATE: Toxicity to fish | LC50 (Cyprinus carpio (Carp)): > 1,000 mg/l Exposure time: 96 h Test Type: semi-static test Method: Directive 67/548/EEC, Annex V, C.1. |
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h Test Type: static test Method: OECD Test Guideline 202 |
| Toxicity to algae | EC50 (Desmodesmus subspicatus (green algae)): > 900 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 |
| | NOEC (Desmodesmus subspicatus (green algae)): 900 mg/l End point: Growth inhibition Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 |

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| PIPERAZINE: Toxicity to fish | : LC50 (Poecilia reticulata (guppy)): > 1,800 mg/l Exposure time: 96 h |
|--|--|
| Toxicity to daphnia and other aquatic invertebrates | EC50 (Daphnia magna (Water flea)): 21 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 |
| Toxicity to algae | EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l Exposure time: 72 h Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | NOEC (Daphnia magna (Water flea)): 12.5 mg/l Exposure time: 21 d Method: OECD Test Guideline 211 |
| Persistence and degradability <u>Components:</u> POLYMER: | 1 |
| Biodegradability | Result: Not readily biodegradable. Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302C |
| 4,4'-DIPHENYLMETHANE DIIS Biodegradability | OCYANATE: : Result: Not biodegradable Biodegradation: 0 % Exposure time: 28 d Method: OECD Test Guideline 302C Remarks: Information given is based on data obtained from similar substances. |
| TALC: Biodegradability | : Result: The methods for determining biodegradability are not applicable to inorganic substances. |
| PROPYLENE CARBONATE: Biodegradability | Result: Readily biodegradable. Biodegradation: 87.1 % Exposure time: 29 d Method: OECD Test Guideline 301B |
| PIPERAZINE: Biodegradability | Result: Readily biodegradable. Biodegradation: 70 % Exposure time: 28 d Method: OECD Test Guideline 301F |

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No data available **Bioaccumulative potential** <u>Components:</u> PROPYLENE CARBONATE: Partition coefficient: noctanol/water : log Pow: -0.41

| No data available | | |
|-----------------------|---|-------------------|
| Mobility in soil | | |
| Components: | | |
| No data available | | |
| Other adverse effects | | |
| No data available | | |
| Product: | | |
| Additional ecological | : | No data available |
| information | | |
| Information | | |

Components:

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | |
|------------------------|---|
| General advice | Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. |
| | Dispose of in accordance with all applicable local, state and federal regulations. |
| Contaminated packaging | Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. |

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

| ID NUMBER | PROPER SHIPPING NAME | *HAZARD CLASS | SUBSIDIARY HAZARDS | PACKING GROUP | MARINE POLLUTANT / |
|-----------|----------------------|------------------|-----------------------|------------------|-----------------------|
| | | | | | LTD. QTY. |

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U.S. DOT - ROAD

Not dangerous goods

CFR_RAIL_C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods

TDG_ROAD_C

Not dangerous goods

TDG_RAIL_C

Not dangerous goods

TDG_INWT_C

Not dangerous goods

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX_DG

Not dangerous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant

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Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

PART A TSCA list

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act CERCLA Reportable Quantity

| Components | CAS-No. | Component RQ | Calculated product RQ |
|----------------------|----------|--------------|-----------------------|
| | | (lbs) | (lbs) |
| 4,4'-DIPHENYLMETHANE | 101-68-8 | 5000 | 14078 |
| DIISOCYANATE | | | |

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 Hazards : | Acute toxicity (any route of exposure) Skin corrosion or irritation Serious eye damage or eye irritation Respiratory or skin sensitisation Specific target organ toxicity (single or repeated exposure) | | exposure) |
|------------------------|---|----------------------|---------------------|
| SARA 302 : | This material does not conta 302 EHS TPQ. | ain any components v | vith a section |
| SARA 313 | The following components a established by SARA Title I 4,4'-DIPHENYLMETHANE DIISOCYANATE | II, Section 313: | g levels 35.51 % |
| California Prop 65 | which is/are known to the S For more information go to TALC | | |
| | QUARTZ / SAND | 14808-60-7 | |
| | | | |

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TSCA list

DSL

: No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act **CERCLA Reportable Quantity** This material does not contain any components with a CERCLA RQ. SARA 304 Extremely Hazardous Substances Reportable Quantity This material does not contain any components with a section 304 EHS RQ.

| SARA 311/312 Hazards | Reproductive toxicity | | |
|------------------------------|---|---|-----------------|
| SARA 302 | This material does not contain any components with a section 302 EHS TPQ. | | |
| SARA 313 | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. | | |
| California Prop 65 | | State of California to cause cancer. www.P65Warnings.ca.gov. 14807-96-6 | |
| | CARBON BLACK | 1333-86-4 | |
| | QUARTZ / SAND | 14808-60-7 | |
| | FURAN | 110-00-9 | |
| | PROPYLENE OXIDE | 75-56-9 | |
| | ACETALDEHYDE | 75-07-0 | |
| The components of this produ | ct are reported in the follow | ring inventories: | On the inventor |
| TSCA | : | | All substances |
| AIIC | : | | On the inventor |

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| PICCS | : | Not in complian |
|-------|---|-----------------|
| IECSC | : | On the inventor |
| NZIoC | : | Not in complian |

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

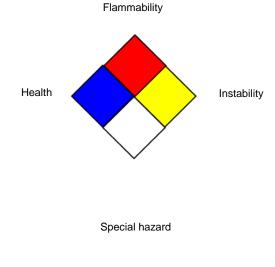
Registration: Trade secret

| Chemical name | Identification number |
|---------------------|-----------------------|
| POLYMER | 254504001-5759 |
| ALUMINUM SILICATES | 254504001-5709 |
| URETHANE PREPOLYMER | 800986-5572P |

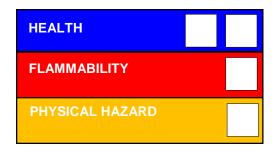
SECTION 16. OTHER INFORMATION



NFPA 704:



HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

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| Full text of H- | Statements |
|-----------------|---|
| H228 | Flammable solid. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure if inhaled. |

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL -Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS -Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United

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Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Bostik. (http://www.Bostik.com)

| | Sources of key data used to compile the Safety Data Sheet | Bostik internal data including own and sponsored test reports European Union Law with content from the Official Journal of the European Union. European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies. The German Water Hazard Classes. ReachCentrum; a series of support services to help comply with REACH regulations. The European Commission; proposing legislation, administering and implementing EU policies, and enforcing EU law. The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council. ESIS European Chemical Substances Information System |
|--|---|---|
|--|---|---|

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