

## SAFETY DATA SHEET

### 1. Identification

|                                                        |                                                         |              |  |
|--------------------------------------------------------|---------------------------------------------------------|--------------|--|
| Product identifier                                     | CIM 1000TG Cartridge                                    |              |  |
| Other means of identification                          | None.                                                   |              |  |
| Recommended use                                        | Not available.                                          |              |  |
| Recommended restrictions                               | None known.                                             |              |  |
| Manufacturer/Importer/Supplier/Distributor information |                                                         |              |  |
| Manufacturer                                           |                                                         |              |  |
| Company name                                           | CIM INDUSTRIES INC                                      |              |  |
| Address                                                | 6900 NELMS STREET<br>HOUSTON, TX 77061<br>United States |              |  |
| Telephone                                              | General Assistance                                      | 800 543-3458 |  |
| E-mail                                                 | info@chasecorp.com                                      |              |  |
| Emergency phone number                                 | Chemtrec (US - 24 hrs)                                  | 800 424-9300 |  |
|                                                        | Chemtrec (INTL - 24 hrs)                                | 703-527-3887 |  |

### 2. Hazard(s) identification

|                              |                                                   |                                     |
|------------------------------|---------------------------------------------------|-------------------------------------|
| <b>Physical hazards</b>      | Flammable liquids                                 | Category 3                          |
| <b>Health hazards</b>        | Acute toxicity, oral                              | Category 4                          |
|                              | Skin corrosion/irritation                         | Category 2                          |
|                              | Serious eye damage/eye irritation                 | Category 2A                         |
|                              | Sensitization, respiratory                        | Category 1                          |
|                              | Sensitization, skin                               | Category 1A                         |
|                              | Germ cell mutagenicity                            | Category 1B                         |
|                              | Carcinogenicity                                   | Category 1B                         |
| <b>Environmental hazards</b> | Specific target organ toxicity, repeated exposure | Category 1 (central nervous system) |
|                              | Aspiration hazard                                 | Category 1                          |
| <b>OSHA defined hazards</b>  | Not classified.                                   |                                     |
| <b>Label elements</b>        | Not classified.                                   |                                     |



**Signal word** Danger

**Hazard statement** Flammable liquid and vapor. Harmful if swallowed. May be fatal if swallowed and enters airways. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause genetic defects. May cause cancer.

**Precautionary statement****Prevention**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing mist/vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

If swallowed: Immediately call a poison center/doctor. Rinse mouth. Do NOT induce vomiting. If on skin: Wash with plenty of water. If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to extinguish.

**Storage**

Store in a well-ventilated place. Keep cool. Store locked up.

**Disposal**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Supplemental information**

94.88% of the mixture consists of component(s) of unknown acute oral toxicity. 96.58% of the mixture consists of component(s) of unknown acute dermal toxicity. 75.63% of the mixture consists of component(s) of unknown acute inhalation toxicity.

**3. Composition/information on ingredients****Mixtures**

| Chemical name                                         | Common name and synonyms | CAS number | %         |
|-------------------------------------------------------|--------------------------|------------|-----------|
| Asphalt                                               | ASPHALT (BITUMEN)        |            | 30 - < 40 |
| DIPHENYLMETHANE DIISOCYANATE [ISOMERS AND HOMOLOGUES] |                          | 9016-87-9  | 10 - < 20 |
| Distillates (petroleum), Hydrotreated Light           |                          | 64742-47-8 | 5 - < 10  |
| Stoddard solvent                                      |                          | 8052-41-3  | 1 - < 3   |
| Oleylamine                                            |                          | 112-90-3   | 1 - < 3   |
| Solvent naphtha (petroleum), medium aliphatic         |                          | 64742-88-7 | < 0.3     |
| Other components below reportable levels              |                          |            | 30 - < 40 |

**Isomer**

| Chemical name                       | Common name and synonyms | CAS number | %      |
|-------------------------------------|--------------------------|------------|--------|
| 4,4'-Methylenediphenyl diisocyanate |                          | 101-68-8   | 8 - 12 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Composition comments**

Note: CAS 101-68-8 is an MDI isomer that is part of CAS 9016-87-9

**4. First-aid measures****Inhalation**

If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

**Eye contact**

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

**Ingestion**

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

**Most important symptoms/effects, acute and delayed**

Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects.

|                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.                                                                      |
| <b>General information</b>                                                    | Take off all contaminated clothing immediately. IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |
| <b>5. Fire-fighting measures</b>                                              |                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Suitable extinguishing media</b>                                           | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                                                                                                                                                                                                                                                                                                                        |
| <b>Unsuitable extinguishing media</b>                                         | Water. Do not use water jet as an extinguisher, as this will spread the fire.                                                                                                                                                                                                                                                                                                                      |
| <b>Specific hazards arising from the chemical</b>                             | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.                                                                                                                                                                                                                 |
| <b>Special protective equipment and precautions for firefighters</b>          | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                                                                                                                                                                                                                                      |
| <b>Fire fighting equipment/instructions</b>                                   | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.                                                                                                                                                                                                                                                                               |
| <b>Specific methods</b>                                                       | Use standard firefighting procedures and consider the hazards of other involved materials.                                                                                                                                                                                                                                                                                                         |
| <b>General fire hazards</b>                                                   | Flammable liquid and vapor.                                                                                                                                                                                                                                                                                                                                                                        |

## 6. Accidental release measures

|                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Methods and materials for containment and cleaning up</b>               | Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools.<br><br>Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.<br><br>Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.<br><br>Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>                                           | Avoid discharge into drains, water courses or onto the ground.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## 7. Handling and storage

|                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Precautions for safe handling</b>                                | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).                                                                                                                                                                                                                                                                                                                                                                                                                      |

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

| Components                                                     | Type    | Value      |
|----------------------------------------------------------------|---------|------------|
| Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)   | PEL     | 400 mg/m3  |
|                                                                |         | 100 ppm    |
| Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) | PEL     | 400 mg/m3  |
|                                                                |         | 100 ppm    |
| Stoddard solvent (CAS 8052-41-3)                               | PEL     | 2900 mg/m3 |
|                                                                |         | 500 ppm    |
| Isomer                                                         | Type    | Value      |
| 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)             | Ceiling | 0.2 mg/m3  |
|                                                                |         | 0.02 ppm   |

**US. ACGIH Threshold Limit Values**

| Components                                                     | Type | Value     | Form                |
|----------------------------------------------------------------|------|-----------|---------------------|
| Asphalt                                                        | TWA  | 0.5 mg/m3 | Inhalable fraction. |
| Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) | TWA  | 200 mg/m3 | Non-aerosol.        |
| Stoddard solvent (CAS 8052-41-3)                               | TWA  | 100 ppm   |                     |
| Isomer                                                         | Type | Value     |                     |
| 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)             | TWA  | 0.005 ppm |                     |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                                         | Type    | Value      | Form  |
|----------------------------------------------------|---------|------------|-------|
| Asphalt                                            | Ceiling | 5 mg/m3    | Fume. |
| Stoddard solvent (CAS 8052-41-3)                   | Ceiling | 1800 mg/m3 |       |
|                                                    | TWA     | 350 mg/m3  |       |
| Isomer                                             | Type    | Value      |       |
| 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) | Ceiling | 0.2 mg/m3  |       |
|                                                    |         | 0.02 ppm   |       |
|                                                    | TWA     | 0.05 mg/m3 |       |
|                                                    |         | 0.005 ppm  |       |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Exposure guidelines****US ACGIH Threshold Limit Values: Skin designation**

Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7)

Can be absorbed through the skin.

**Appropriate engineering controls**

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

**Individual protection measures, such as personal protective equipment**

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>            | Chemical respirator with organic vapor cartridge and full facepiece.                                                                                                                                                                                                                                                                                                                                |
| <b>Skin protection</b>                |                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hand protection</b>                | Wear appropriate chemical resistant gloves.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Other</b>                          | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.                                                                                                                                                                                                                                                                                                            |
| <b>Respiratory protection</b>         | Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Chemical respirator with organic vapor cartridge and full facepiece.                                                                                                                                                                                                      |
| <b>Thermal hazards</b>                | Wear appropriate thermal protective clothing, when necessary.                                                                                                                                                                                                                                                                                                                                       |
| <b>General hygiene considerations</b> | Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

**9. Physical and chemical properties****Appearance**

|                                                |                                 |
|------------------------------------------------|---------------------------------|
| <b>Physical state</b>                          | Liquid.                         |
| <b>Form</b>                                    | Liquid. Two component cartridge |
| <b>Color</b>                                   | Brown. Dark Gray Black          |
| <b>Odor</b>                                    | Hydrocarbon-like.               |
| <b>Odor threshold</b>                          | 0.4 ppm                         |
| <b>pH</b>                                      | Not available.                  |
| <b>Melting point/freezing point</b>            | Forms crystals below 10°C       |
| <b>Initial boiling point and boiling range</b> | 347 °F (175 °C)                 |
| <b>Flash point</b>                             | 101.0 °F (38.3 °C)              |
| <b>Evaporation rate</b>                        | Not available.                  |
| <b>Flammability (solid, gas)</b>               | Not applicable.                 |

**Upper/lower flammability or explosive limits**

|                                       |                 |
|---------------------------------------|-----------------|
| <b>Flammability limit - lower (%)</b> | 0.7 % estimated |
| <b>Flammability limit - upper (%)</b> | 5 % estimated   |
| <b>Explosive limit - lower (%)</b>    | Not available.  |
| <b>Explosive limit - upper (%)</b>    | Not available.  |

|                         |                   |
|-------------------------|-------------------|
| <b>Vapor pressure</b>   | 3.4 hPa estimated |
| <b>Vapor density</b>    | 4.9               |
| <b>Relative density</b> | Not available.    |

**Solubility(ies)**

|                                                |                |
|------------------------------------------------|----------------|
| <b>Solubility (water)</b>                      | 6.8 mg/l       |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |

**Auto-ignition temperature** 392 °F (200 °C)

**Decomposition temperature** Not available.

**Viscosity** Not available.

**Other information**

|                             |                                         |
|-----------------------------|-----------------------------------------|
| <b>Density</b>              | 0.90 - 1.30 g/cm3                       |
| <b>Explosive properties</b> | Not explosive.                          |
| <b>Explosivity</b>          | Not Explosive                           |
| <b>Flammability class</b>   | Combustible II estimated                |
| <b>Oxidizing properties</b> | Not oxidizing. No oxidizing properties. |
| <b>Percent volatile</b>     | < 10 %                                  |

|                  |                     |
|------------------|---------------------|
| Specific gravity | 0.9 - 1.3 estimated |
| VOC              | 88 g/l              |

## 10. Stability and reactivity

|                                    |                                                                                                                                                                       |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                         | The product is stable and non-reactive under normal conditions of use, storage and transport.                                                                         |
| Chemical stability                 | Material is stable under normal conditions.                                                                                                                           |
| Possibility of hazardous reactions | No dangerous reaction known under conditions of normal use.                                                                                                           |
| Conditions to avoid                | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| Incompatible materials             | Strong oxidizing agents. Alkaline metals. Alcohols. Phenols.                                                                                                          |
| Hazardous decomposition products   | No hazardous decomposition products are known.                                                                                                                        |

## 11. Toxicological information

### Information on likely routes of exposure

|              |                                                                                                                                              |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Prolonged inhalation may be harmful.                              |
| Skin contact | Causes skin irritation. May cause an allergic skin reaction.                                                                                 |
| Eye contact  | Causes serious eye irritation.                                                                                                               |
| Ingestion    | Harmful if swallowed. Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |

|                                                                              |                                                                                                                                                                                                                                                                                                                                                     |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms related to the physical, chemical and toxicological characteristics | Aspiration may cause pulmonary edema and pneumonitis. Narcosis. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. |
|------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Information on toxicological effects

|                |                                               |
|----------------|-----------------------------------------------|
| Acute toxicity | May be fatal if swallowed and enters airways. |
|----------------|-----------------------------------------------|

| Components                                                     | Species | Test Results     |
|----------------------------------------------------------------|---------|------------------|
| Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)   |         |                  |
| <u>Acute</u>                                                   |         |                  |
| Inhalation                                                     |         |                  |
| LC50                                                           | Rat     | 61 mg/l, 4 Hours |
| Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) |         |                  |
| <u>Acute</u>                                                   |         |                  |
| Inhalation                                                     |         |                  |
| LC50                                                           | Rat     | 61 mg/l, 4 Hours |

|                                   |                                |
|-----------------------------------|--------------------------------|
| Skin corrosion/irritation         | Causes skin irritation.        |
| Serious eye damage/eye irritation | Causes serious eye irritation. |

### Respiratory or skin sensitization

|                           |                                                                            |
|---------------------------|----------------------------------------------------------------------------|
| Respiratory sensitization | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitization        | May cause an allergic skin reaction.                                       |
| Germ cell mutagenicity    | May cause genetic defects.                                                 |
| Carcinogenicity           | May cause cancer.                                                          |

### IARC Monographs. Overall Evaluation of Carcinogenicity

|                                                                       |                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| 4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)                    | 3 Not classifiable as to carcinogenicity to humans. |
| DIPHENYLMETHANE DIISOCYANATE [ISOMERS AND HOMOLOGUES] (CAS 9016-87-9) | 3 Not classifiable as to carcinogenicity to humans. |
| Stoddard solvent (CAS 8052-41-3)                                      | 3 Not classifiable as to carcinogenicity to humans. |

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

|                       |                                                                              |
|-----------------------|------------------------------------------------------------------------------|
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. |
|-----------------------|------------------------------------------------------------------------------|

|                                                           |                                                                                                      |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------|
| <b>Specific target organ toxicity - single exposure</b>   | Not classified.                                                                                      |
| <b>Specific target organ toxicity - repeated exposure</b> | Causes damage to organs (central nervous system) through prolonged or repeated exposure.             |
| <b>Aspiration hazard</b>                                  | May be fatal if swallowed and enters airways.                                                        |
| <b>Chronic effects</b>                                    | Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful. |

## 12. Ecological information

**Ecotoxicity** The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

| Product                                                        | Species |                                                     | Test Results                     |
|----------------------------------------------------------------|---------|-----------------------------------------------------|----------------------------------|
| CIM 1000TG Cartridge                                           |         |                                                     |                                  |
| Aquatic                                                        |         |                                                     |                                  |
| Crustacea                                                      | EC50    | Daphnia                                             | 60.5875 mg/l, 48 hours estimated |
| Fish                                                           | LC50    | Fish                                                | 48.0675 mg/l, 96 hours estimated |
| Components                                                     | Species |                                                     | Test Results                     |
| Distillates (petroleum), Hydrotreated Light (CAS 64742-47-8)   |         |                                                     |                                  |
| Aquatic                                                        |         |                                                     |                                  |
| Crustacea                                                      | EC50    | Water flea (Daphnia pulex)                          | 2.7 - 5.1 mg/l, 48 hours         |
| Fish                                                           | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 2.9 mg/l, 96 hours               |
| Solvent naphtha (petroleum), medium aliphatic (CAS 64742-88-7) |         |                                                     |                                  |
| Aquatic                                                        |         |                                                     |                                  |
| Crustacea                                                      | EC50    | Water flea (Daphnia pulex)                          | 2.7 - 5.1 mg/l, 48 hours         |
| Fish                                                           | LC50    | Rainbow trout,donaldson trout (Oncorhynchus mykiss) | 8.8 mg/l, 96 hours               |
|                                                                |         |                                                     | 8.8 mg/l, 96 hours               |

**Persistence and degradability** No data is available on the degradability of any ingredients in the mixture.

### Bioaccumulative potential

|                                                          |             |
|----------------------------------------------------------|-------------|
| <b>Partition coefficient n-octanol / water (log Kow)</b> |             |
| Stoddard solvent                                         | 3.16 - 7.15 |

**Mobility in soil** No data available.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential.

## 13. Disposal considerations

|                                              |                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001. Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.                                                                                                                                                                                                                                                                                                                               |
| <b>Hazardous waste code</b>                  | D001: Waste Flammable material with a flash point <140 F<br>The waste code should be assigned in discussion between the user, the producer and the waste disposal company.                                                                                                                                                                                                           |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).                                                                                                                                                                     |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.                                                                                                                                                                           |

## 14. Transport information

**DOT**  
Not regulated as dangerous goods.  
This material can be reclassified as non-hazardous for DOT Transportation per 49 CFR 173.150 (f). This material can also be shipped as UN1139 Coating Solutions, Class 3, PGIII.

## IATA

Not regulated as dangerous goods.

## IMDG

Not regulated as dangerous goods.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not established.

## 15. Regulatory information

**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### TSCA Chemical Action Plans, Chemicals of Concern

4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) Methylene Diphenyl Diisocyanate (MDI) And Related Compounds Action Plan [RIN 2070-ZA15]

DIPHENYLMETHANE DIISOCYANATE [ISOMERS AND HOMOLOGUES] (CAS 9016-87-9) Methylene Diphenyl Diisocyanate (MDI) And Related Compounds Action Plan [RIN 2070-ZA15]

### CERCLA Hazardous Substance List (40 CFR 302.4)

4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8) Listed.

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

#### SARA 302 Extremely hazardous substance

Not listed.

**SARA 311/312 Hazardous chemical** Yes

**Classified hazard categories** Flammable (gases, aerosols, liquids, or solids)  
Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation  
Respiratory or skin sensitization  
Germ cell mutagenicity  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)  
Aspiration hazard

### SARA 313 (TRI reporting)

| Chemical name                                         | CAS number | % by wt.  |
|-------------------------------------------------------|------------|-----------|
| DIPHENYLMETHANE DIISOCYANATE [ISOMERS AND HOMOLOGUES] | 9016-87-9  | 10 - < 20 |
| 4,4'-Methylenediphenyl diisocyanate                   | 101-68-8   | 8 - 12    |

### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

### US state regulations

#### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 2016 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).



**US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))**

4,4'-Methylenediphenyl diisocyanate (CAS 101-68-8)

DIPHENYLMETHANE DIISOCYANATE [ISOMERS AND HOMOLOGUES] (CAS 9016-87-9)

Stoddard solvent (CAS 8052-41-3)

**International Inventories**

| Country(s) or region        | Inventory name                                                         | On inventory (yes/no)* |
|-----------------------------|------------------------------------------------------------------------|------------------------|
| Australia                   | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada                      | Domestic Substances List (DSL)                                         | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)                                          | Yes                    |
| New Zealand                 | New Zealand Inventory                                                  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

**16. Other information, including date of preparation or last revision**

|                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Issue date</b>           | 06-02-2015                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Revision date</b>        | 11-29-2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Version #</b>            | 04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>HMIS® ratings</b>        | Health: 3*<br>Flammability: 3<br>Physical hazard: 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>NFPA ratings</b>         | Health: 2<br>Flammability: 3<br>Instability: 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Disclaimer</b>           | The information offered in this data sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. This material is intended for industrial use only. No warranty, expressed or implied is made. |
| <b>Revision information</b> | This document has undergone significant changes and should be reviewed in its entirety.                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |