

# SAFETY DATA SHEET

## 1. IDENTIFICATION

### Product identifier

**Product Name** ARMOR UTN60 - Part A

### Recommended use of the chemical and restrictions on use

**Recommended Use** Concrete Coating.

**Uses advised against** No Data

### Details of the supplier of the safety data sheet

#### **Distributor Address**

Foundation Armor 10 Howe Drive Amherst, NH 03031

### Emergency telephone number

**Company Phone Number** 866-306-0246

**24 Hour Emergency Phone Number** 800-424-9300 (United States & Canada) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                                                                            |             |
|------------------------------------------------------------------------------------------------------------|-------------|
| Acute toxicity - Oral                                                                                      | Category 5  |
| Acute toxicity - Inhalation (Vapors)                                                                       | Category 4  |
| Skin corrosion/irritation                                                                                  | Category 2  |
| Serious eye damage/eye irritation                                                                          | Category 2A |
| Specific target organ toxicity (single exposure)                                                           | Category 2  |
| Specific target organ toxicity (repeated exposure)                                                         | Category 2  |
| Aspiration toxicity                                                                                        | Category 1  |
| Flammable liquids Category 2, Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2 |             |

### Label elements

#### **Emergency Overview**

**Danger!**

#### **Hazard statements**

Highly flammable  
Suspected of Causing Cancer  
Toxic to Aquatic Life with Long Lasting Effects  
Causes Serious Eye Irritation  
May Cause Respiratory Irritation  
May Cause Drowsiness or Dizziness  
May be Harmful if Swallowed  
May be Harmful if Swallowed and Enters Airways  
Causes Skin Irritation

**Appearance** Colorless to yellowish.**Physical state** liquid**Odor** Solvent**Precautionary Statements - 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  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ ventilating / lighting/ equipment  
 Use only non-sparking tools  
 Take action to prevent static discharges  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Use only outdoors or in a well-ventilated area  
 Avoid release to the environment  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation occurs: Get medical advice or attention.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor  
 Do NOT induce vomiting.  
 Take off contaminated clothing and wash before reuse  
 In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.  
 Collect spillage

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

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

**Hazards not otherwise classified (HNOC)**

Repeated exposure may cause skin dryness or cracking

**Other Information****3. COMPOSITION/INFORMATION ON INGREDIENTS****Substance**

| Chemical Name                             | CAS No.    | Weight-% | Trade Secret |
|-------------------------------------------|------------|----------|--------------|
| Polyester Polyol                          | 26745-09-5 | 15 - 40  | *            |
| Propylene glycol monomethyl ether acetate | 108-65-6   | 15 - 40  | *            |
| n-Butyl acetate                           | 123-86-4   | 5 - 15   | *            |
| tert-Butyl acetate                        | 540-88-5   | 5 - 15   | *            |
| Petroleum naphtha, light aromatic         | 64742-95-6 | 5 - 10   | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

#### 4. FIRST AID MEASURES

##### Description of first aid measures

|                       |                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.                                                                                                 |
| <b>Eye contact</b>    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                       |
| <b>Skin contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.    |
| <b>Inhalation</b>     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| <b>Ingestion</b>      | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.                                                               |

##### Most important symptoms and effects, both acute and delayed

**Symptoms** Eye, Skin, and Respiratory Irritation. May cause allergic skin reaction.

##### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Treat symptomatically. For additional information, see Safety Data Sheet.

#### 5. FIRE-FIGHTING MEASURES

##### Suitable extinguishing media

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

##### Specific hazards arising from the chemical

In a fire or if heated a pressure increase may occur and the container may burst.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

##### Explosion data

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

##### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

#### 6. ACCIDENTAL RELEASE MEASURES

##### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Use personal protective equipment as required. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for cleaning up** Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling**

**Advice on safe handling** Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Incompatible materials** Keep away from strong oxidizing agents, strong alkalis, and strong acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Control parameters**

| Chemical Name                                  | ACGIH TLV                     | OSHA PEL                                   | NIOSH IDLH                                                                                                   |
|------------------------------------------------|-------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| Aromatic 100<br>64742-95-6                     | TWA: 100 ppm                  | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup> |                                                                                                              |
| n-Butyl acetate<br>123-86-4                    | STEL: 200 ppm<br>TWA: 150 ppm | TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup> | IDLH: 1700 ppm<br>TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 950 mg/m <sup>3</sup> |
| tert-Butyl acetate<br>540-88-5                 | TWA: 200 ppm                  | TWA: 200 ppm<br>TWA: 950 mg/m <sup>3</sup> | IDLH: 1500 ppm<br>TWA: 200 ppm<br>TWA: 950 mg/m <sup>3</sup>                                                 |
| 2-methoxy-1-methylethyl<br>acetate<br>108-65-6 | TWA: 50 ppm                   |                                            |                                                                                                              |

**Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

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

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye/face protection</b>            | Wear safety glasses with side shields (or goggles).                                                                                                                                                                                                                                                                                                                                                 |
| <b>Skin and body protection</b>       | Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.                                                                                                                                        |
| <b>Respiratory protection</b>         | Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. |
| <b>General Hygiene Considerations</b> | Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the workday.                                                                                                                                                                                                                                                            |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                                |                         |                                |                   |
|--------------------------------|-------------------------|--------------------------------|-------------------|
| <b>Physical state</b>          | liquid                  | <b>Odor</b>                    | Solvent           |
| <b>Appearance</b>              | Colorless to yellowish. | <b>Odor threshold</b>          | No data available |
| <b>Color</b>                   | Colorless to yellowish. |                                |                   |
| <b><u>Property</u></b>         | <b><u>Values</u></b>    | <b><u>Remarks • Method</u></b> |                   |
| pH                             | Not Relevant            |                                |                   |
| Melting point / freezing point | Not Available           |                                |                   |
| Boiling point / boiling range  | no data available       |                                |                   |
| Flash point                    | 4 °C 39 °F              | CC (closed cup)                |                   |
| Evaporation rate               | Not Available           |                                |                   |
| Flammability (solid, gas)      | Not Relevant            |                                |                   |
| Flammability Limit in Air      |                         |                                |                   |
| Upper flammability limit:      | Not Available           |                                |                   |
| Lower flammability limit:      | Not Available           |                                |                   |
| Vapor pressure                 | Not Available           |                                |                   |
| Vapor density                  | Not Available           |                                |                   |
| Relative density               | 1.03 @ 70 Degrees F     |                                |                   |
| Water solubility               | Insoluble in water      |                                |                   |
| Solubility in other solvents   | Not Available           |                                |                   |
| Partition coefficient          | Not Available           |                                |                   |
| Autoignition temperature       | Not Available           |                                |                   |
| Decomposition temperature      | Not Available           |                                |                   |
| Kinematic viscosity            | Not Available           |                                |                   |
| Dynamic viscosity              | Not Available           |                                |                   |
| Explosive properties           | Not Available           |                                |                   |
| Oxidizing properties           | Not Available           |                                |                   |

### Other Information

|                  |                       |
|------------------|-----------------------|
| Softening point  | Not Relevant          |
| Molecular weight | Not Available         |
| VOC Content (%)  | < 400 g/L (Mixed A&B) |
| Density          | Not Available         |
| Bulk density     | Not Available         |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not Available

### Chemical stability

Stable.

#### **Possibility of Hazardous Reactions**

Hazardous polymerization does not occur.

#### **Conditions to avoid**

Heat, flames, and sparks.

#### **Incompatible materials**

Keep away from strong oxidizing agents, strong alkalis, and strong acids.

#### **Hazardous Decomposition Products**

Hazardous decomposition products formed under fire conditions, carbon oxides.

## **11. TOXICOLOGICAL INFORMATION**

### **Information on likely routes of exposure**

#### **Product Information**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Inhalation</b>   | Direct contact and vapor inhalation. |
| <b>Eye contact</b>  | Direct contact.                      |
| <b>Skin contact</b> | Direct contact.                      |
| <b>Ingestion</b>    | Direct contact.                      |

| <b>Chemical Name</b>                                  | <b>Oral LD50</b>                | <b>Dermal LD50</b>                | <b>Inhalation LC50</b>                           |
|-------------------------------------------------------|---------------------------------|-----------------------------------|--------------------------------------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | = 8532 mg/kg ( Rat )            | > 5 g/kg ( Rabbit )               | > 20 mg/l (Rat) 6 h                              |
| n-Butyl acetate<br>123-86-4                           | Oral LD-50: (Rat): 14,130 mg/kg | Dermal LD-50: (Rabbit): > 16ml/kg | N/A                                              |
| tert-Butyl acetate<br>540-88-5                        | -                               | -                                 | > 2230 mg/m <sup>3</sup> ( Rat ) 4 h             |
| Petroleum naphtha, light aromatic<br>64742-95-6       | -                               | > 2000 mg/kg ( Rabbit )           | > 5.2 mg/L ( Rat ) 4 h = 3400 ppm<br>( Rat ) 4 h |
| 2-methoxy-1-methylethyl acetate<br>108-65-6           | 6,190 mg/kg (Rat)               | > 5,000 mg/kg (Rabbit)            | > 4345 ppm (Rat) 6 h                             |
| 2-methoxypropanol<br>1589-47-5                        | 5,710 mg/kg (Rat)               | 5,660 mg/kg (Rabbit)              |                                                  |

### **Information on toxicological effects**

**Symptoms** May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Causes severe burns. Irritating to skin.                                                              |
| <b>Serious eye damage/eye irritation</b> | Irritating to eyes. Risk of serious damage to eyes.                                                   |
| <b>Irritation</b>                        | Irritating to eyes, respiratory system and skin.                                                      |
| <b>Sensitization</b>                     | No data available.                                                                                    |
| <b>Germ cell mutagenicity</b>            | No data available.                                                                                    |
| <b>Carcinogenicity</b>                   | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP |
| <b>Reproductive toxicity</b>             | Not classified based on available information.                                                        |
| <b>STOT - single exposure</b>            | Not Available.                                                                                        |
| <b>STOT - repeated exposure</b>          | Not Available.                                                                                        |

**Aspiration hazard** Not Available.

**Numerical measures of toxicity - Product Information**

**12. ECOLOGICAL INFORMATION**

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Ecotoxicity**

| Chemical Name                                         | Algae/aquatic plants         | Fish                                                            | Crustacea                             |
|-------------------------------------------------------|------------------------------|-----------------------------------------------------------------|---------------------------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | -                            | 161: 96 h Pimephales promelas<br>mg/L LC50 static               | 500: 48 h Daphnia magna mg/L<br>EC50  |
| n-Butyl acetate<br>123-86-4                           | EC-50 (Alga, 72 h): 648 mg/l | LC-50 (Fathead Minnow, 96 h): 18<br>mg/l                        |                                       |
| 1,2,4 Trimethylbenzene<br>95-63-6                     | -                            | 7.19 - 8.28: 96 h Pimephales<br>promelas mg/L LC50 flow-through | 6.14: 48 h Daphnia magna mg/L<br>EC50 |
| tert-Butyl acetate<br>540-88-5                        | -                            | 296 - 362: 96 h Pimephales<br>promelas mg/L LC50 flow-through   | -                                     |
| Petroleum naphtha, light aromatic<br>64742-95-6       | -                            | 9.22: 96 h Oncorhynchus mykiss<br>mg/L LC50                     | 6.14: 48 h Daphnia magna mg/L<br>EC50 |

**Persistence and degradability**

No data available.

**Bioaccumulation**

No data available.

| Chemical Name                                         | Partition coefficient |
|-------------------------------------------------------|-----------------------|
| Propylene glycol monomethyl ether acetate<br>108-65-6 | 0.43                  |
| tert-Butyl acetate<br>540-88-5                        | 1.38                  |

**Other adverse effects** No data available.

**13. DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Disposal of wastes** Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging** Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION**

**DOT** UN1263, PAINT RELATED MATERIAL, 3, II

**Marine pollutant** Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**IATA** UN1263, PAINT RELATED MATERIAL, 3, II

**IMDG** UN1263, PAINT RELATED MATERIAL, 3, II

## 15. REGULATORY INFORMATION

### International Inventories

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDL       | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |

### Legends

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List  
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
 ENCS - Japan Existing and New Chemical Substances  
 IECSC - China Inventory of Existing Chemical Substances  
 KECL - Korean Existing and Evaluated Chemical Substances  
 PICCS - Philippines Inventory of Chemicals and Chemical Substances  
 AICS - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | No  |
| Reactive Hazard                   | No  |

#### California Proposition 65

This product contains chemicals known to the state of California to cause birth defects or other reproductive harm

### U.S. State Right-to-Know Regulations

### U.S. EPA Label Information

## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health hazards 2 | Flammability 3 | Instability 0      | Physical and Chemical Properties - |
| <b>HMIS</b> | Health hazards 2 | Flammability 3 | Physical hazards 0 | Personal protection X              |

Issue Date 23-March-2021  
 Revision Date N/A  
 Revision Note

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**

Issue Date 23-March-2021

Revision Date N/A

Version 2

## 1. IDENTIFICATION

### Product identifier

**Product Name** ARMOR UTN60 - Part B

### Recommended use of the chemical and restrictions on use

**Recommended Use** Concrete Coating.

**Uses advised against** No Data

### Details of the supplier of the safety data sheet

#### **Distributor Address**

Foundation Armor 10 Howe Drive Amherst, NH 03031

### Emergency telephone number

**Company Phone Number** 866-306-0246

**24 Hour Emergency Phone Number** 800-424-9300 (United States & Canada) 1-703-527-3887 (International)

## 2. HAZARDS IDENTIFICATION

### Classification

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                                                                                            |             |
|------------------------------------------------------------------------------------------------------------|-------------|
| Acute toxicity - Oral                                                                                      | Category 5  |
| Acute toxicity - Inhalation (Vapors)                                                                       | Category 4  |
| Skin corrosion/irritation                                                                                  | Category 2  |
| Serious eye damage/eye irritation                                                                          | Category 2A |
| Specific target organ toxicity (single exposure)                                                           | Category 3  |
| Aspiration toxicity                                                                                        | Category 2  |
| Flammable liquids Category 2, Hazardous to the Aquatic Environment - Long Term (Chronic) Hazard Category 2 |             |

### Label elements

#### **Emergency Overview**

**Danger!**

#### **Hazard statements**

Highly flammable  
Toxic to Aquatic Life with Long Lasting Effects  
Causes Serious Eye Irritation  
May Cause Respiratory Irritation  
May Cause Drowsiness or Dizziness  
May be Harmful if Swallowed  
May be Harmful if Swallowed and Enters Airways  
Causes Skin Irritation

**Appearance** Transparent Liquid**Physical state** liquid**Odor** Solvent**Precautionary Statements - 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  
 Keep container tightly closed  
 Ground/bond container and receiving equipment  
 Use explosion-proof electrical/ ventilating / lighting/ .? / equipment  
 Use only non-sparking tools  
 Take action to prevent static discharges  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Use only outdoors or in a well-ventilated area  
 Avoid release to the environment  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower  
 If skin irritation occurs: Get medical advice or attention.  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contacts, if present and easy to do. Continue rinsing.  
 If eye irritation persists: Get medical advice/attention  
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.  
 IF SWALLOWED: Immediately call a POISON CONTROL CENTER/doctor  
 Do NOT induce vomiting.  
 Take off contaminated clothing and wash before reuse  
 In case of fire use, "alcohol resistant" foam, dry chemical, halon or carbon dioxide to extinguish.  
 Collect spillage

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

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

**Hazards not otherwise classified (HNOC)**

Repeated exposure may cause skin dryness or cracking

**Other Information**

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

| Chemical Name                  | CAS No.    | Weight-% | Trade Secret |
|--------------------------------|------------|----------|--------------|
| Polyhexamethylene Diisocyanate | 28182-81-2 | 60 - 100 | *            |
| n-Butyl acetate                | 123-86-4   | 10 - 30  | *            |

\*The exact percentage (concentration) of composition has been withheld as a trade secret.

### 4. FIRST AID MEASURES

**Description of first aid measures**

|                       |                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b> | Move out of the dangerous area. Consult a physician. Provide this Safety Data Sheet to the doctor in attendance.                                                                                                 |
| <b>Eye contact</b>    | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                       |
| <b>Skin contact</b>   | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician.    |
| <b>Inhalation</b>     | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician. |
| <b>Ingestion</b>      | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.                                                               |

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

**Symptoms** Eye, Skin, and Respiratory Irritation. May cause allergic skin reaction.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically. For additional information, see Safety Data Sheet.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Dry Chemical, Alcohol Resistant Foam, Halon or Carbon Dioxide.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

In a fire or if heated a pressure increase may occur and the container may burst.

**Hazardous combustion products** Carbon dioxide (CO<sub>2</sub>). Carbon monoxide.

**Explosion data**

**Sensitivity to Mechanical Impact** Not available.

**Sensitivity to Static Discharge** May be ignited by friction, heat, sparks or flames.

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Use personal protective equipment as required. P261 - Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**

**Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not allow product to enter any drains or waterways.

#### **Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills.

**Methods for cleaning up** Use a non-combustible material like vermiculite or sand to soak up the product and place into a container for later disposal. Use clean non-sparking tools to collect absorbed material. Dispose according to local regulations.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Advice on safe handling** Do not handle until all safety precautions have been read and understood. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Take measures to prevent the buildup of electrostatic charge. Use non-sparking tools. Wash hands and skin thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

**Incompatible materials** Keep away from strong oxidizing agents, strong alkalis, and strong acids.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Control parameters**

#### **Exposure Guidelines**

| Chemical Name                                           | ACGIH TLV                        | OSHA PEL                                   | NIOSH IDLH                                                                                                   |
|---------------------------------------------------------|----------------------------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| n-Butyl acetate<br>123-86-4                             | STEL: 200 ppm<br>TWA: 150 ppm    | TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup> | IDLH: 1700 ppm<br>TWA: 150 ppm<br>TWA: 710 mg/m <sup>3</sup><br>STEL: 200 ppm<br>STEL: 950 mg/m <sup>3</sup> |
| Homopolymer of Hexamethylene Diisocyanate<br>28182-81-2 | STEL: 0.001 pm<br>TWA: 0.005 ppm | N/A                                        |                                                                                                              |
| Hexamethylene-1, 6- Diisocyanate<br>822-06-9            | STEL: N/A<br>TWA: 0.005          | N/A                                        |                                                                                                              |

### **Appropriate engineering controls**

**Engineering Controls** General/Local Ventilation Recommended.

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

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear chemical resistant gloves at minimum. Wash skin immediately upon contact. Wash hands at mealtime and end of shift.

**Respiratory protection** Use respiratory protection unless adequate local exhaust ventilation is provided, or exposure assessment demonstrates that exposures are within recommended exposure

guidelines. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after breaks and at the end of the workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |                                                                          |                       |                   |
|-----------------------|--------------------------------------------------------------------------|-----------------------|-------------------|
| <b>Physical state</b> | liquid                                                                   | <b>Odor</b>           | Solvent           |
| <b>Appearance</b>     | Transparent Liquid                                                       | <b>Odor threshold</b> | No data available |
| <b>Color</b>          | Transparent Liquid - May have slight color due to performance additives. |                       |                   |

| <u>Property</u>                | <u>Values</u>       | <u>Remarks • Method</u> |
|--------------------------------|---------------------|-------------------------|
| pH                             | Not Relevant        |                         |
| Melting point / freezing point | Not Available       |                         |
| Boiling point / boiling range  | No Data Available   |                         |
| Flash point                    | 27°C 80.6 °F        | CC (closed cup)         |
| Evaporation rate               | Not Available       |                         |
| Flammability (solid, gas)      | Not Relevant        |                         |
| Flammability Limit in Air      |                     |                         |
| Upper flammability limit:      | 7.6%                |                         |
| Lower flammability limit:      | 1.7%                |                         |
| Vapor pressure                 | Not Available       |                         |
| Vapor density                  | Not Available       |                         |
| Relative density               | 1.09 @ 70 Degrees F |                         |
| Water solubility               | Insoluble in water  |                         |
| Solubility in other solvents   | Not Available       |                         |
| Partition coefficient          | Not Available       |                         |
| Autoignition temperature       | Not Available       |                         |
| Decomposition temperature      | Not Available       |                         |
| Kinematic viscosity            | Not Available       |                         |
| Dynamic viscosity              | Not Available       |                         |
| Explosive properties           | Not Available       |                         |
| Oxidizing properties           | Not Available       |                         |

### Other Information

|                         |                         |
|-------------------------|-------------------------|
| <b>Softening point</b>  | Not Relevant            |
| <b>Molecular weight</b> | Not Available           |
| <b>VOC Content (%)</b>  | < 400 g/L (Mixed A & B) |
| <b>Density</b>          | Not Available           |
| <b>Bulk density</b>     | Not Available           |

## 10. STABILITY AND REACTIVITY

### Reactivity

Not Available

### Chemical stability

Stable.

### Possibility of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks.

**Incompatible materials**

Water, amines, strong bases, alcohols, copper alloys.

**Hazardous Decomposition Products**

Carbon dioxide, carbon monoxide, oxides of nitrogen, dense black smoke, hydrogen cyanide, isocyanate, isocyanic acid, and other compounds unidentified.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

|                     |                                      |
|---------------------|--------------------------------------|
| <b>Inhalation</b>   | Direct contact and vapor inhalation. |
| <b>Eye contact</b>  | Direct contact.                      |
| <b>Skin contact</b> | Direct contact.                      |
| <b>Ingestion</b>    | Direct contact.                      |

| Chemical Name                                           | Oral LD50                          | Dermal LD50                                                     | Inhalation LC50                                   |
|---------------------------------------------------------|------------------------------------|-----------------------------------------------------------------|---------------------------------------------------|
| Homopolymer of Hexamethylene Diisocyanate<br>28182-81-2 | LD50 Oral Rat, Female ≥2,500 mg/kg | LD50 Dermal Rabbit >2,000 mg/kg<br>LD50 Dermal Rat >2,000 mg/kg | LD50 Inhalation Rat, Female 0.390 – 0.543 mg/l 4h |
| Hexamethylene-1, 6- Diisocyanate<br>822-06-9            | LD50 Oral Rat, Female 746 mg/kg    | LD50 Dermal Rat >7,000 mg/kg                                    | LD50 Inhalation Rat, Female 0.124 mg/l 4h         |
| n-Butyl acetate<br>123-86-4                             | Oral LD-50: (Rat): 14,130 mg/kg    | Dermal LD-50: (Rabbit): > 16ml/kg                               | N/A                                               |

**Information on toxicological effects**

**Symptoms** May cause drowsiness or dizziness if inhaled. May cause respiratory irritation. Causes serious eye irritation. Causes skin irritation.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

|                                          |                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Irritating to skin.                                                                                   |
| <b>Serious eye damage/eye irritation</b> | Irritating to eyes. Risk of serious damage to eyes.                                                   |
| <b>Irritation</b>                        | Irritating to eyes, respiratory system and skin.                                                      |
| <b>Sensitization</b>                     | No data available.                                                                                    |
| <b>Germ cell mutagenicity</b>            | No data available.                                                                                    |
| <b>Carcinogenicity</b>                   | This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP |
| <b>Reproductive toxicity</b>             | Not Available.                                                                                        |
| <b>STOT - single exposure</b>            | Not Available.                                                                                        |
| <b>STOT - repeated exposure</b>          | Not Available.                                                                                        |
| <b>Aspiration hazard</b>                 | Not Available.                                                                                        |

**Numerical measures of toxicity - Product Information**

## 12. ECOLOGICAL INFORMATION

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Ecotoxicity**

| Chemical Name                                              | Algae/aquatic plants                                     | Fish                                                                                                                                                         | Crustacea                             |
|------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| n-Butyl acetate<br>123-86-4                                | 674.7: 72 h Desmodesmus subspicatus<br>mg/L EC50         | 17 - 19: 96 h Pimephales<br>promelas mg/L LC50 flow-through<br>100: 96 h Lepomis macrochirus<br>mg/L LC50 static 62: 96 h<br>Leuciscus idus mg/L LC50 static | 72.8: 24 h Daphnia magna mg/L<br>EC50 |
| Homopolymer of Hexamethylene<br>Diisocyanate<br>28182-81-2 |                                                          | LC50 100 mg/l (Zebra Fish, 96h)                                                                                                                              | EC50 100 mg/l (water flea, 48 h).     |
| Hexamethylene-1, 6- Diisocyanate<br>822-06-9               | An accumulation in aquatic organisms<br>is not expected. | LC0: ≥82.8 mg/l (Zebra Fish)<br>48 h                                                                                                                         |                                       |

**Persistence and degradability**

No data available.

**Bioaccumulation**

No data available.

**Other adverse effects**

No data available.

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Disposal of wastes**

Under RCRA 40 CFR 261 this material is a hazardous waste. Dispose of in accordance with all federal, state, and local regulations. If uncertain of local requirements, contact the proper environmental authorities for information on waste disposal in your area. Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION****DOT**

UN1263, PAINT, 3, III

**Marine pollutant**

Material is expected to be harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**IATA**

UN1263, PAINT RELATED MATERIAL, 3, III

**IMDG**

UN1263, PAINT RELATED MATERIAL, 3, II

**15. REGULATORY INFORMATION****International Inventories**

|               |          |
|---------------|----------|
| TSCA          | Complies |
| DSL/NDL       | Complies |
| EINECS/ELINCS | Complies |
| ENCS          | Complies |
| IECSC         | Complies |
| KECL          | Complies |
| PICCS         | Complies |
| AICS          | Complies |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| Chronic Health Hazard             | Yes |
| Fire hazard                       | Yes |
| Sudden release of pressure hazard | Yes |
| Reactive Hazard                   | No  |

### US State Regulations

#### California Proposition 65

This product does not contain chemicals known to the state of California to cause birth defects or other reproductive harm

#### U.S. State Right-to-Know Regulations

#### U.S. EPA Label Information

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

|             |                  |                |                    |                                    |
|-------------|------------------|----------------|--------------------|------------------------------------|
| <b>NFPA</b> | Health hazards 2 | Flammability 3 | Instability 0      | Physical and Chemical Properties - |
| <b>HMIS</b> | Health hazards 2 | Flammability 3 | Physical hazards 0 | Personal protection X              |

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 Revision Note

#### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

**End of Safety Data Sheet**