

# Material Safety Data Sheet

NON HAZARDOUS – CHEMICAL IDENTIFICATION CODE NOT APPLICABLE

## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

**Product Name** : ARMOFLOOR UVR Part A  
**HS Code** : 3208900  
**Application** : UV Resistant aliphatic polyurethane coating  
**Manufacturer** : MATEX CONSTRUCTION CHEMICALS  
MANUFACTURING CO. L.L.C.  
**Address** : P.O. Box 29585  
**Telephone** : +971 4 3334140  
**Fax** : +971 4 3334115  
**Email** : [info@matex.ae](mailto:info@matex.ae)  
**Website** : [www.matex-global.com](http://www.matex-global.com)

## 2. HAZARDS IDENTIFICATION:

Environment hazardous



Harmful if inhaled

## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

| Ingredients          | % Composition | CAS No.    |
|----------------------|---------------|------------|
| Branched polyalcohol | 40-60         | 109-17-1   |
| Xylene               | 20-25         | 108-38-3   |
| Filler               | 25-30         | 14808-60-7 |
| Additive             | 1-5           | 3586-55-8  |

## 4. FIRST AID MEASURES:

**Skin contact** : Flush with large amounts of clean water, use soap available.  
Remove any contaminated clothing.

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|             |   |                                                                                                                                      |
|-------------|---|--------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact | : | Check for and remove any contact lenses. Flush with large amounts of clean warm water for 15 minutes. Get prompt medical attention.  |
| Inhalation  | : | Immediately move victim to fresh air. If breathing has stopped then administer artificial respiration. Get prompt medical attention. |

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## 5. FIRE FIGHTING MEASURES:

|                               |                                                   |
|-------------------------------|---------------------------------------------------|
| Suitable Extinguishing Media: | CO2 / Dry chemical powder. Do not use water jets. |
| Special Protective Equipment: | Self - contained breathing apparatus.             |

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## 6. ACCIDENTAL RELEASE MEASURES:

|                                    |                                                                                                                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions               | Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.                                                                                                                         |
| Environmental precautions          | Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.                                                                                                                    |
| Methods for cleaning up/collecting | Contain and collect spillage with non-combustible Absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. |

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## 7. HANDLING AND STORAGE:

|                               |                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information for safe handling | Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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Information about protection against  
Explosions and fires

may charge electrostatically: always use earthing leads when transferring from one container to another.  
Operators should wear antistatic footwear and clothing. No sparking tools should be used. Avoid contact with skin and eyes. Do not inhale the vapour. Do not eat or drink during work – no smoking. Comply with the health and safety at work laws.

Requirements to be met by storerooms  
And containers

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

Information about separation of  
Incompatible products

Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access.

Further information about  
storage conditions

Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Storage class (VCI)

Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.

Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep away from ignition sources - No smoking.  
3A

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

|                               |   |                                                         |
|-------------------------------|---|---------------------------------------------------------|
| Occupational Exposure Limits  | : | None assigned                                           |
| Engineering Control Measures  | : | Use with adequate general and local exhaust ventilation |
| Personal Protective Equipment | : | Impervious gloves, safety goggles, plastic apron.       |

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

|                          |   |             |
|--------------------------|---|-------------|
| Form                     | : | Liquid      |
| Colour                   | : | Transparent |
| Odour                    | : | Aromatic    |
| Change in physical state | : | N/A         |
| Boiling point, °C(mm Hg) | : | N/A         |

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|                          |   |          |
|--------------------------|---|----------|
| Melting point, °C        | : | < 0 °C   |
| Flash Point (°C)         | : | > 60 °C  |
| Thermal decomposition    | : | N/A      |
| Specific gravity (°C)    | : | 1.1 (25) |
| pH value (°C)            | : | N/A      |
| Solubility in water (°C) | : | N/A      |

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## 10. STABILITY AND REACTIVITY:

|                     |   |                                                                                                                                                                                                                                                                                         |
|---------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conditions to avoid | : | Stable under recommended storage and handling conditions (See section 7).                                                                                                                                                                                                               |
| Materials to avoid  | : | Keep away from oxidizing agents, strongly alkaline and Strongly acid materials in order to avoid exothermic reactions. Exothermic reaction with amines and alcohols. In contact with water (moisture) CO <sub>2</sub> is formed which leads to an excess pressure in closed containers. |

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## 11. TOXICOLOGICAL INFORMATION:

There are no data available on the preparation itself. This has been assessed following the conventional method of the Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar preparations, this product may be a skin sensitizer and irritant. May produce allergic reactions.  
LD<sub>50</sub> oral, rat: >2000 mg/kg

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## 12. ECOLOGICAL INFORMATION:

|                   |                                                                                                                                                                                                         |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                   | Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium. |
| Product Waste key | Disposal Code according to European Waste Catalog (EWC)                                                                                                                                                 |

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please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons. Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent

## 13. DISPOSAL CONSIDERATIONS:

Proper shipping name: Resin solution, flammable  
 UN Number: 1866  
 Class : 3  
 Subsidiary risk: -  
 Packing Group: I  
 Label(s):



### Additional Information

|          |   |                            |     |
|----------|---|----------------------------|-----|
| ADR-HIN  | : | 30                         |     |
| IMDG-EMS | : | F-E, S-E Marine Pollutant: | Yes |
| IMO      | : | -                          |     |

## 14. REGULATORY INFORMATION:

|                                  |                                                                                         |
|----------------------------------|-----------------------------------------------------------------------------------------|
| Labelling                        | Labelling according to EEC directives concerning preparations.                          |
| R-phrases                        | R10 Flammable                                                                           |
| S-phrases                        | R51 Use only in well-ventilated areas.                                                  |
| National regulatory information  | Regulation on inflammable liquids (VbF) VbF-Class : Not dangerous according to VbF      |
| Emission control act ("TA-Luft") | Sum organic substances class II : < 5 %<br>Sum organic substances class III : 25 - 30 % |
| Water pollution classification   | Class : 1 according VwVwS                                                               |
| Poisonous law (CH)               | Giftklasse: frei, BAGT-Nr: 619 000                                                      |
| Denmark                          | Denmark: PR-Nr. : 899758 MAL-Code: 3-1 MAL-Code for ready mixture: 3-3                  |

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## Other regulations

Observe UVV for handling of painting material (VBG 23).  
Germany: Refer also to: "Solvents". (BG-Chemie, Guideline M 017, ZH 1/319). Switzerland: Please refer to the guidelines of SUVA and EKAS. e.g.: "Guideline for preventing accidents when using two component resins" (SUVA 1854)

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## 15. OTHER INFORMATION:

The data and advice given apply when the product is used for the stated application or applications. The product is not sold as suitable for any other applications. Use of the product for applications other than as stated in the sheet may give rise to risks not mentioned in this sheet. The product should not be used other than for the stated application or applications without seeking advice from MATEX.

If the product has been purchased for supply to a third party for use at work, it is the purchaser's duty to take all necessary steps to ensure that any person handling of using the product is provided with the information in this sheet.

It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.

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## 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY UNDERTAKING:

|                     |   |                                                                |
|---------------------|---|----------------------------------------------------------------|
| <b>Product Name</b> | : | ARMOFLOOR UVR Part B                                           |
| <b>HS Code</b>      | : | <b>3208900</b>                                                 |
| <b>Application</b>  | : | UV Resistant aliphatic polyurethane coating                    |
| <b>Manufacturer</b> | : | MATEX CONSTRUCTION CHEMICALS<br>MANUFACTURING CO. L.L.C.       |
| <b>Address</b>      | : | P.O. Box 29585                                                 |
| <b>Telephone</b>    | : | +971 4 3334140                                                 |
| <b>Fax</b>          | : | +971 4 3334115                                                 |
| <b>Email</b>        | : | <a href="mailto:info@matex.ae">info@matex.ae</a>               |
| <b>Website</b>      | : | <a href="http://www.matex-global.com">www.matex-global.com</a> |

## 2. HAZARDS IDENTIFICATION:

**Directive criteria, 67/548/CE, 99/45/EC and following amendments thereof:**

Properties / Symbols:

Xn Harmful

Xi Irritant

Flammable.

Harmful by inhalation.

Irritating to respiratory system.

May cause sensitization by skin contact.

Symbols:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H332 Harmful if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.



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## Precautionary statements:

P210 Keep away from heat/sparks/ open flames/hot surface – NO SMOKING  
P233 Keep container tightly closed  
P280 Wear protective gloves / protective clothing / eye protection  
P333+P313 If skin irritation or rash occurs, get medical attention  
P370 + P378 In case of fire, use powder or CO<sub>2</sub> for extinction  
P501 Dispose of contents/ container in accordance with applicable regulations.

## Special Provisions:

EUH204 Contains isocyanates. May produce an allergic reaction.

## Contents:

HDI obligomers, isocyanurate  
Hexamethylene-di-isocyanate

## Others Hazards:

vPvB Substances: None – PBT Substances: None

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## 3. COMPOSITION / INFORMATION ON INGREDIENTS:

| Ingredients                                   | % Composition | CAS No.     |
|-----------------------------------------------|---------------|-------------|
| HDI Oligomers, isocyanurate in Buty / acetate | ~100%         | Proprietary |

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## 4. FIRST AID MEASURES:

|              |   |                                                                                                                                      |
|--------------|---|--------------------------------------------------------------------------------------------------------------------------------------|
| Skin contact | : | Flush with large amounts of clean water, use soap if available. Remove any contaminated clothing.                                    |
| Eye contact  | : | Check for and remove any contact lenses. Flush with large amounts of clean warm water for 15 minutes. Get prompt medical attention.  |
| Inhalation   | : | Immediately move victim to fresh air. If breathing has stopped then administer artificial respiration. Get prompt medical attention. |

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## 5. FIRE FIGHTING MEASURES:

|                                                           |                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media:                             | Fire extinguishing powder, foam or CO <sub>2</sub> . Use foam and water jets only in case of extensive fire outbreak.<br>Extinguishing media which must not be used for safety reasons: high volume water jet.                                                                                                                   |
| Special Hazards arising<br>From the substance or mixture: | Do not inhale explosion and combustion gases.<br>Burning releases carbon monoxide, carbon dioxide, oxides of nitrogen, isocyanate vapors and traces of hydrogen cyanide.                                                                                                                                                         |
| Advice for fire-fighters:                                 | During the extinction of fires it is necessary to protect the airway with a breathing apparatus and protective clothing resistant to chemicals.<br>Collect contaminated fire extinguishing water separately. This must be discharged into drains. Move undamaged containers from immediate hazard area if it can be done safely. |

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## 6. ACCIDENTAL RELEASE MEASURES:

|                                    |                                                                                                                                                                                                                                                                         |
|------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Personal precautions               | Remove ignition sources. Provide for sufficient ventilation. Do not inhale the vapour. Refer to protective measures listed in sections 7 and 8.                                                                                                                         |
| Environmental precautions          | Do not empty into drains. If the product contaminates lakes, rivers or sewages, inform appropriate authorities in accordance with local regulations.                                                                                                                    |
| Methods for cleaning up/collecting | Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13). Clean preferably with a detergent; avoid use of solvents. |

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## 7. HANDLING AND STORAGE:

|                               |                                                                                                                                                                                                                                                                                                                       |
|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Information for safe handling | Prevent the creation of inflammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the OEL (=Occupational Exposure Limit). Additionally, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Preparation |
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|                                                           |                                                                                                                                                                                                                                                                                                                                                                                          |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                           | <p>may charge electrostatically: always use earthing leads when transferring from one container to another.</p> <p>Operators should wear antistatic footwear and clothing.</p> <p>No sparking tools should be used. Avoid contact with skin and eyes.</p> <p>Do not inhale the vapour. Do not eat or drink during work – no smoking. Comply with the health and safety at work laws.</p> |
| Information about protection against Explosions and fires | <p>Vapours are heavier than air and may spread along floors.</p> <p>Vapours may form explosive mixtures with air.</p>                                                                                                                                                                                                                                                                    |
| Requirements to be met by storerooms And containers       | <p>Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking.</p>                                                                                                                                                                                                                                                                       |
| Information about separation of Incompatible products     | <p>Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.</p>                                                                                                                                                                                                                                                          |
| Further information about storage conditions              | <p>Keep away from oxidizing agents, from strongly alkaline and strongly acid materials.</p>                                                                                                                                                                                                                                                                                              |
|                                                           | <p>Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight.</p>                                                                                                                                                                                                                                            |
| Storage class (VCI)                                       | <p>Keep away from ignition sources - No smoking.</p> <p>3A</p>                                                                                                                                                                                                                                                                                                                           |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION:

|                    |   |                                                                                                                                                                                                                                                                                                                                         |
|--------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Control parameters | : | <p>n-butyl acetate – CAS: 123-86-4</p> <p>TLV TWA: 150 ppm 713 mg/m<sup>3</sup></p> <p>TLV STEL: 200 ppm – 950, 18 mg/m<sup>3</sup></p> <p>Hexamethylene-di-isocyanate – CAS: 822-06-0</p> <p>TLV TWA: 0.005 ppm 0.034 mg/m<sup>3</sup></p> <p>DNEL Exposure limit values</p> <p>N.A.</p> <p>PNEC Exposure limit values</p> <p>N.A.</p> |
|--------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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## Exposure Controls

|                        |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|------------------------|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye Protection         | : | Use safety goggles of close fitting safety goggles, don't use eye lens                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Skin Protection        | : | Wear suitable protective clothing                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Hand Protection        | : | Use protective gloves that provides comprehensive protection, e.g. PVC neoprene or rubber                                                                                                                                                                                                                                                                                                                                                                                                       |
| Respiratory protection | : | In places with poor ventilation and during the spraying process it is necessary to protect the respiratory tract. It is recommended to wear a mask with air supply or a mask with combination filter A2-P2 FOR short-term jobs.<br>In case of hypersensitivity of the respiratory tract (e.g. asthmatics and those who suffer from chronic bronchitis) it is inadvisable to work with the product.<br>Symptoms affecting the respiratory tract can also occur several hours after overexposure. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

|                     |   |                              |
|---------------------|---|------------------------------|
| Appearance          | : | Clear Liquid                 |
| Odour               | : | of solvent                   |
| Boiling point       | : | 126°C                        |
| Vapour density      | : | >1                           |
| Flash point         | : | 25°C                         |
| Vapour pressure     | : | 1,5 kPa @ 20°C               |
| Relative density    | : | 1,13 g/cm <sup>3</sup>       |
| Solubility in water | : | Insoluble, REACTS WITH WATER |

## 10. STABILITY AND REACTIVITY:

|                     |   |                                                                                                                                                                                                                                                                  |
|---------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conditions to avoid | : | Stable under recommended storage and handling conditions (See section 7).                                                                                                                                                                                        |
| Materials to avoid  | : | Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reaction with amines and alcohols. In contact with water (moisture CO <sub>2</sub> is formed which leads to an excess pressure in closed containers. |

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## 11. TOXICOLOGICAL INFORMATION:

This product may be an irritant. May produce inflammatory reactions on inhalation.

## 12. ECOLOGICAL INFORMATION:

Is converted in connection with water in a solid, insoluble and inert polyurea, liberating CO<sub>2</sub>.

Additional ecological information

General ecological information      Do not empty into waters or drains.

## 13. DISPOSAL CONSIDERATIONS:

Product Waste key

Contaminated packaging must be emptied of all residues and, following appropriate cleaning, may be sent to a recycling plant. Uncleaned packaging must be disposed of in the same manner as the medium.

Disposal Code according to European Waste Catalog (EWC) please specify according to the use of product, e.g.: 080102 Waste from production, formulation, sales and application of paints and varnishes. Old paints and varnishes, not containing halogenated hydrocarbons. Switzerland: Disposal code (VVS): 1620 Waste from paints, varnishes and adhesives with organic phase or solvent.

## 14. TRANSPORT INFORMATION:

|                          |                             |
|--------------------------|-----------------------------|
| Proper shipping name:    | Polyisocyanate curing agent |
| UN Number (ADR/RID/ADN): | 1866                        |
| Class:                   | 3                           |
| Packing Group:           | III                         |
| Label(s):                | 3                           |

### IMDG:

|                   |      |
|-------------------|------|
| ONU Number:       | 1866 |
| Class:            | 3    |
| Packing Group:    | III  |
| Dangerous Labels: | 3    |
| Marine Pollutant: | No   |



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## ICAO:

ONU Number: 1866  
Class: 3  
Packing Group: III  
Dangerous Labels: 3

## 15. REGULATORY INFORMATION:

### Labelling

Labelling according to EEC directives concerning preparations.  
Xn ; Harmful

H332 Harmful if inhaled  
H317 May cause an allergic skin reaction  
H335 May cause respiratory irritation  
H226 Flammable liquid and vapour  
H336 May cause drowsiness or dizziness  
H319 Causes serious eye irritation  
H315 Causes skin irritation  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H331 Toxic if inhaled  
P210 Keep away from heat/sparks/open flames/hot surface – NO SMOKING  
P233 Keep container tightly closed  
P280 Wear protective gloves / protective clothing / eye protection  
P333 + P313 If skin irritation or rash occurs, get medical attention  
P370 + P378 In case of fire, use powder or CO<sub>2</sub> for extinction  
P501 Dispose of contents/ container in accordance with applicable regulations.

### Registration Status

Chemical : TSCA - released/ listed  
AICS - released/ listed  
DSL - released/ listed

HMIS Rating : Health: 1, Flammability: 2, Physical Hazard: 0

H223 Flammable material  
H316 Causes skin irritation  
H312 Harmful in contact with skin  
H332 Harmful if inhaled  
H336 May cause drowsiness or dizziness

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## 16. OTHER INFORMATION:

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It is the responsibility and duty of the employer to inform employees and others who may be affected of hazards described in this sheet and of any precautions which should be taken.

This sheet does not constitute or substitute for the users own assessment of workplace risk, as required by other health and safety legislation.

Further copies of this Safety Data Sheet may be obtained from MATEX.