



# SAFETY DATA SHEET

In accordance with OSHA 29 CFR 1910.1200

ULTRASET ADVANCE(R)  
Revision Number 2

Revision date 03-Oct-2024  
Supersedes date 24-May-2016

## 1. Identification

### 1.1. Product identifier

Product Name ULTRASET ADVANCE(R)

### Other means of identification

Other information Not applicable

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use No information available

Restrictions on use No information available

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

#### Responsible Party

Bostik Inc.  
11320 W. Watertown Plank Road  
Wauwatosa, Wisconsin 53226 USA  
Phone: +1(800) 726-7845 (Domestic Toll Free)  
Phone: +1 (414) 774-2250 (International)

E-mail msds@bostik.com

### 1.4. Emergency telephone number

Emergency Telephone CHEMTREC (Chemical Transportation Emergency Center)  
Chemtrec: 1-800-424-9300 (US) , 1-703-527-3887 (Outside U.S.)  
Rocky Mountain Poison Center: 1-866-767-5089

## 2. Hazard(s) identification

### 2.1. Classification of the substance or mixture

|                                                    |             |
|----------------------------------------------------|-------------|
| Acute toxicity - Inhalation (Dusts/Mists)          | Category 4  |
| Respiratory sensitization                          | Category 1  |
| Skin sensitization                                 | Category 1  |
| Carcinogenicity                                    | Category 2  |
| Reproductive toxicity                              | Category 1B |
| Specific target organ toxicity (repeated exposure) | Category 2  |
| Flammable liquids                                  | Category 4  |

### Hazards not otherwise classified (HNOC)

Not applicable

### 2.2. Label elements

#### EMERGENCY OVERVIEW

Danger

#### Hazard statements

Harmful if inhaled

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May cause allergy or asthma symptoms or breathing difficulties if inhaled  
May cause an allergic skin reaction  
Suspected of causing cancer  
May damage fertility or the unborn child  
May cause damage to organs through prolonged or repeated exposure  
Combustible liquid



**Appearance** Paste

**Physical state** Liquid

**Odor** Odorless

## Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Use only outdoors or in a well-ventilated area  
In case of inadequate ventilation wear respiratory protection  
Contaminated work clothing must not be allowed out of the workplace  
Do not breathe dust/fume/gas/mist/vapors/spray  
Keep away from flames and hot surfaces. - No smoking

## Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention  
IF ON SKIN: Wash with plenty of water and soap  
If skin irritation or rash occurs: Get medical advice/attention  
Wash contaminated clothing before reuse  
IF INHALED: Remove person to fresh air and keep comfortable for breathing  
If experiencing respiratory symptoms: Call a POISON CENTER or doctor  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam to extinguish

## Precautionary Statements - Storage

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

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Unknown acute toxicity

2 % of the mixture consists of ingredient(s) of unknown toxicity

## 2.3. Other Information

Causes mild skin irritation.

## 3. Composition/information on ingredients

### 3.1. Substances

Not applicable.

### Mixture

US - EN

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| Chemical name                                          | CAS No.    | Weight-% |
|--------------------------------------------------------|------------|----------|
| Limestone                                              | 1317-65-3  | 40 - 70  |
| Naphtha (petroleum), hydrotreated heavy, <0.1% Benzene | 64742-48-9 | 5 - <10  |
| Carbonic acid, calcium salt (1:1)                      | 471-34-1   | 3 - <7   |
| Methylenediphenyl diisocyanate                         | 26447-40-5 | 1 - <5   |
| Isophorone diisocyanate                                | 4098-71-9  | 0.1 - <1 |
| o-(p-isocyanatobenzyl)phenyl isocyanate                | 5873-54-1  | 0.1 - <1 |
| 4,4'-Methylenediphenyl diisocyanate                    | 101-68-8   | 0.1 - <1 |
| Benzenesulfonyl isocyanate, 4-methyl-                  | 4083-64-1  | 0.1 - <1 |
| Dibutyltin dilaurate                                   | 77-58-7    | 0.1 - <1 |
| Glycidoxypropyltrimethoxysilane                        | 2530-83-8  | 0.1 - <1 |
| N-(trichloromethylthio)phthalimide                     | 133-07-3   | 0.1 - <1 |

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

## 4. First-aid measures

### 4.1. Description of first aid measures

|                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>General advice</b>                     | Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.                                                                                                                                                                                                                                                                                                                   |
| <b>Inhalation</b>                         | May cause allergic respiratory reaction. Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.                                                                                                                                                        |
| <b>Eye contact</b>                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                                                                                                                                               |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician.                                                                                                                                                                                                                  |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. May produce an allergic reaction. Get immediate medical attention.                                                                                                                                                                                                                                                                    |
| <b>Self-protection of the first aider</b> | Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapors or mists. |

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

|                            |                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Symptoms</b>            | May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation. Difficulty in breathing. |
| <b>Effects of Exposure</b> | No information available.                                                                                                                                                                                  |

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

|                           |                                                                        |
|---------------------------|------------------------------------------------------------------------|
| <b>Note to physicians</b> | May cause sensitization in susceptible persons. Treat symptomatically. |
|---------------------------|------------------------------------------------------------------------|

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## 5. Fire-Fighting Measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol resistant foam.  
**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. In the event of fire and/or explosion do not breathe fumes. Product is or contains a sensitizer. May cause sensitization by inhalation. May cause sensitization by skin contact. Risk of ignition.

**Hazardous combustion products** Carbon oxides. Carbon dioxide (CO<sub>2</sub>). Nitrogen oxides (NO<sub>x</sub>). Hydrogen cyanide. Isocyanates. Sulfur oxides. Thermal decomposition can lead to release of irritating and toxic gases and vapors.

#### Explosion data

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. Accidental Release Measures

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

**Personal precautions** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapors or mists. Pay attention to flashback. Take precautionary measures against static discharges.

**Other information** Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

**Environmental precautions** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Stop leak if you can do it without risk.

**Methods for cleaning up** Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other noncombustible absorbent material. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Clean contaminated

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surface thoroughly.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Use personal protection equipment. Do not breathe vapor or mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Remove contaminated clothing and shoes.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Storage Conditions

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the particular national regulations. Store in accordance with local regulations. Store locked up. Keep out of the reach of children.

**Recommended storage temperature** Keep at temperatures between 50 and 95 °F / 10 and 35 °C.

### 7.3 References to other sections

**Reference to other sections** Section 10: STABILITY AND REACTIVITY  
Section 13: DISPOSAL CONSIDERATIONS

## 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limits

This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

| Chemical name                                 | ACGIH TLV | OSHA PEL                                                                                                                                                                                                  | NIOSH                                                                            |
|-----------------------------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Limestone<br>1317-65-3                        | -         | TWA: 15 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable<br>fraction<br>(vacated) TWA: 15 mg/m <sup>3</sup> total<br>dust<br>(vacated) TWA: 5 mg/m <sup>3</sup><br>respirable fraction | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust |
| Carbonic acid, calcium salt (1:1)<br>471-34-1 | -         | -                                                                                                                                                                                                         | TWA: 10 mg/m <sup>3</sup> total dust<br>TWA: 5 mg/m <sup>3</sup> respirable dust |
| Methylenediphenyl diisocyanate                | -         | Ceiling: 0.02 ppm                                                                                                                                                                                         | -                                                                                |

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|                                                    |                                                                               |                                                                                                                                                                                                                                          |                                                                                                                                                   |
|----------------------------------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 26447-40-5                                         |                                                                               | Ceiling: 0.2 mg/m <sup>3</sup>                                                                                                                                                                                                           |                                                                                                                                                   |
| Isophorone diisocyanate<br>4098-71-9               | TWA: 0.005 ppm                                                                | (vacated) TWA: 0.005 ppm<br>(vacated) STEL: 0.02 ppm<br>(vacated) S*                                                                                                                                                                     | TWA: 0.005 ppm<br>TWA: 0.045 mg/m <sup>3</sup><br>STEL: 0.02 ppm<br>STEL: 0.180 mg/m <sup>3</sup>                                                 |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8 | TWA: 0.005 ppm                                                                | (vacated) Ceiling: 0.02 ppm<br>regulated under Methylene<br>bisphenyl isocyanate<br>(vacated) Ceiling: 0.2 mg/m <sup>3</sup><br>regulated under Methylene<br>bisphenyl isocyanate<br>Ceiling: 0.02 ppm<br>Ceiling: 0.2 mg/m <sup>3</sup> | IDLH: 75 mg/m <sup>3</sup><br>Ceiling: 0.020 ppm 10 min<br>Ceiling: 0.2 mg/m <sup>3</sup> 10 min<br>TWA: 0.005 ppm<br>TWA: 0.05 mg/m <sup>3</sup> |
| Dibutyltin dilaurate<br>77-58-7                    | TWA: 0.1 mg/m <sup>3</sup> Sn<br>STEL: 0.2 mg/m <sup>3</sup> Sn<br>Sk*        | TWA: 0.1 mg/m <sup>3</sup> Sn<br>(vacated) TWA: 0.1 mg/m <sup>3</sup> Sn<br>(vacated) S*                                                                                                                                                 | IDLH: 25 mg/m <sup>3</sup> Sn<br>TWA: 0.1 mg/m <sup>3</sup> except<br>Cyhexatin Sn                                                                |
| N-(trichloromethylthio)phthalimi<br>de<br>133-07-3 | TWA: 1 mg/m <sup>3</sup> inhalable<br>particulate matter<br>dermal sensitizer | -                                                                                                                                                                                                                                        | -                                                                                                                                                 |

| Chemical name                                      | Argentina                                                        | Brazil                                                    | S.D. 594/1999                                        | Colombia                                                |
|----------------------------------------------------|------------------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------|---------------------------------------------------------|
| Limestone<br>1317-65-3                             | TWA: 10 mg/m <sup>3</sup>                                        | -                                                         | LPP: 7 mg/m <sup>3</sup><br>LPP: 5 mg/m <sup>3</sup> | -                                                       |
| Methylenediphenyl diisocyanate<br>26447-40-5       | TWA: 0.005 ppm                                                   | -                                                         | LPP: 0.004 ppm<br>LPP: 0.045 mg/m <sup>3</sup>       | -                                                       |
| Isophorone diisocyanate<br>4098-71-9               | TWA: 0.005 ppm                                                   | TWA: 0.005 ppm                                            | -                                                    | TWA: 0.005ppm                                           |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8 | TWA: 0.005 ppm                                                   | TWA: 0.005 ppm                                            | LPP: 0.004 ppm<br>LPP: 0.05 mg/m <sup>3</sup>        | TWA: 0.005ppm                                           |
| Dibutyltin dilaurate<br>77-58-7                    | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup><br>Sk* | TWA: 0.1 mg/m <sup>3</sup><br>STEL: 0.2 mg/m <sup>3</sup> | LPP: 0.09 mg/m <sup>3</sup><br>Sk*                   | STEL: 0.2mg/m <sup>3</sup><br>TWA: 0.1mg/m <sup>3</sup> |
| N-(trichloromethylthio)phthalimi<br>de<br>133-07-3 | -                                                                | TWA: 1 mg/m <sup>3</sup>                                  | -                                                    | TWA: 1mg/m <sup>3</sup>                                 |

| Chemical name                                      | Costa Rica                 | Peru                                                    | Uruguay                                                                    | Venezuela                                                         |
|----------------------------------------------------|----------------------------|---------------------------------------------------------|----------------------------------------------------------------------------|-------------------------------------------------------------------|
| Carbonic acid, calcium salt (1:1)<br>471-34-1      | -                          | TWA: 10mg/m <sup>3</sup>                                | -                                                                          | TWA: 10 mg/m <sup>3</sup>                                         |
| Methylenediphenyl diisocyanate<br>26447-40-5       | TWA: 0.005ppm              | -                                                       | -                                                                          | -                                                                 |
| Isophorone diisocyanate<br>4098-71-9               | TWA: 0.005ppm              | TWA: 0.005ppm<br>TWA: 0.045mg/m <sup>3</sup>            | 0.005 ppm TWA                                                              | TWA: 0.005 ppm                                                    |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8 | TWA: 0.005ppm              | TWA: 0.005ppm<br>TWA: 0.051mg/m <sup>3</sup>            | 0.005 ppm TWA (listed<br>under Methylene<br>bisphenyl isocyanate<br>(MDI)) | TWA: 0.005 ppm                                                    |
| Dibutyltin dilaurate<br>77-58-7                    | STEL: 0.2mg/m <sup>3</sup> | STEL: 0.2mg/m <sup>3</sup><br>TWA: 0.1mg/m <sup>3</sup> | 0.2 mg/m <sup>3</sup> STEL (as Sn)<br>0.1 mg/m <sup>3</sup> TWA (as Sn)    | Skin<br>STEL: 0.2 mg/m <sup>3</sup><br>TWA: 0.1 mg/m <sup>3</sup> |
| N-(trichloromethylthio)phthalimi<br>de<br>133-07-3 | -                          | -                                                       | 1 mg/m <sup>3</sup> TWA (inhalable<br>particulate matter)                  | -                                                                 |

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## 8.2. Exposure controls

### Appropriate engineering controls

Engineering controls      Showers  
Eyewash stations  
Ventilation systems.

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

Eye/face protection      Tight sealing safety goggles.

Hand protection      Wear suitable gloves.

Skin and body protection      Wear suitable protective clothing.

Respiratory protection      In case of insufficient ventilation, wear suitable respiratory equipment.

General hygiene considerations      Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

## 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state      Liquid  
Appearance      Paste  
Color      Cream  
Odor      Odorless  
Odor threshold      No information available

| Property                                | Values            | Remarks • Method |
|-----------------------------------------|-------------------|------------------|
| pH                                      | No data available | None known       |
| pH (as aqueous solution)                | No data available | None known       |
| Melting point / freezing point          | No data available | None known       |
| Initial boiling point and boiling range | 172 °C / 341.6 °F | None known       |
| Flash point                             | 71 °C / 159.8 °F  | None known       |
| Evaporation rate                        | No data available | None known       |
| Flammability                            | No data available | None known       |
| Flammability Limit in Air               |                   | None known       |
| Upper flammability or explosive limits  | No data available |                  |
| Lower flammability or explosive limits  | No data available |                  |
| Vapor pressure                          | No data available | None known       |
| Relative vapor density                  | No data available | None known       |
| Relative density                        | No data available | None known       |
| Water solubility                        | Reacts with water | None known       |
| Solubility(ies)                         | No data available | None known       |

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|                           |                   |            |
|---------------------------|-------------------|------------|
| Partition coefficient     | No data available | None known |
| Autoignition temperature  | No data available | None known |
| Decomposition temperature | No data available | None known |
| Kinematic viscosity       | No data available | None known |
| Dynamic viscosity         | No data available | None known |

## 9.2. Other information

|                      |                          |                          |
|----------------------|--------------------------|--------------------------|
| Explosive properties | No information available |                          |
| Oxidizing properties | No information available |                          |
| Solvent content (%)  | No information available |                          |
| Solid content (%)    | 92.5                     |                          |
| Softening point      | No information available |                          |
| Molecular weight     | No information available |                          |
| VOC content          | < 40 g/L                 | No information available |
| Liquid Density       | No information available | g/cm <sup>3</sup>        |
| Bulk density         | 1.69                     |                          |

## 10. Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Chemical stability Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

### 10.4. Conditions to avoid

Conditions to avoid Heat, flames and sparks. Excessive heat.

### 10.5. Incompatible materials

Incompatible materials None known based on information supplied.

### 10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied

## 11. Toxicological information

### 11.1. Information on toxicological effects

#### Product Information

|              |                                                                                                                                                                                                                                                          |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | Specific test data for the substance or mixture is not available. May cause sensitization in susceptible persons. (based on components). Harmful by inhalation.                                                                                          |
| Eye contact  | Based on available data, the classification criteria are not met.                                                                                                                                                                                        |
| Skin contact | Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). May cause sensitization by skin contact. Causes mild skin irritation. |

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## Ingestion

Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

## Symptoms related to the physical, chemical and toxicological characteristics

### Symptoms

Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Itching. Rashes. Hives. Prolonged contact may cause redness and irritation.

## Acute toxicity

### Numerical measures of toxicity

The following values are calculated based on chapter 3.1 of the GHS document

|                               |                 |
|-------------------------------|-----------------|
| ATEmix (oral)                 | >5000 mg/kg     |
| ATEmix (dermal)               | 39,917.10 mg/kg |
| ATEmix (inhalation-gas)       | >20000 ppm      |
| ATEmix (inhalation-dust/mist) | 3.85 mg/l       |
| ATEmix (inhalation-vapor)     | >20 mg/l        |

### Unknown acute toxicity

2 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

## Component Information

| Chemical name                                                              | Oral LD50                                      | Dermal LD50                                                       | Inhalation LC50                                                          |
|----------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------------------------------|--------------------------------------------------------------------------|
| Limestone<br>1317-65-3                                                     | >5000 mg/kg (Rattus)                           | -                                                                 | -                                                                        |
| Naphtha (petroleum),<br>hydrotreated heavy, <0.1%<br>Benzene<br>64742-48-9 | >6000 mg/kg (Rattus)                           | > 3160 mg/kg (Oryctolagus<br>cuniculus)                           | >8500 mg/m <sup>3</sup> (Rattus) 4 h                                     |
| Carbonic acid, calcium salt (1:1)<br>471-34-1                              | LD50 > 2000 mg/kg (Rattus)<br>OECD 420         | LD50 >2000 mg/kg (Rattus)<br>OECD 402                             | LC50 (4h) >3mg/ml (Rattus)                                               |
| Methylenediphenyl diisocyanate<br>26447-40-5                               | >10000 mg/kg (Rattus)                          | > 10000 mg/kg (Oryctolagus<br>cuniculus)                          | =490 mg/m <sup>3</sup> (Rattus) 4 h                                      |
| Isophorone diisocyanate<br>4098-71-9                                       | =4814 mg/kg (Rattus)                           | LD50 > 2000 mg/kg                                                 | =0.135 mg/L (Rattus) 4 h                                                 |
| o-(p-isocyanatobenzyl)phenyl<br>isocyanate<br>5873-54-1                    | LD50 >2000 mg/Kg (Rattus)                      | LD 50 > 9400 mg/kg<br>(Oryctolagus cuniculus)<br>OECD 402         | 1.5 mg/L (4h) Rat                                                        |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8                         | =31600 mg/kg (Rattus)<br>= 9200 mg/kg (Rattus) | LD 50 > 9400 mg/kg<br>(Oryctolagus cuniculus)<br>OECD 402         | 1.5 mg/L (Rattus) 4 h                                                    |
| Benzenesulfonyl isocyanate,<br>4-methyl-<br>4083-64-1                      | =2234 mg/kg (Rattus)                           | LD 50 (Rattus) > 2000 mg/kg<br>OECD 402                           | >640 ppm (Rattus) 1 h                                                    |
| Dibutyltin dilaurate<br>77-58-7                                            | =2071 mg/kg (Rattus) OECD<br>401               | > 2000 mg/kg (Rattus)                                             | -                                                                        |
| Glycidoxypropyltrimethoxysilane<br>2530-83-8                               | =8025 mg/kg (Rattus)                           | = 4250 mg/kg (Oryctolagus<br>cuniculus)                           | >5.3 mg/L (Rattus) 4 h                                                   |
| N-(trichloromethylthio)phthalimi<br>de<br>133-07-3                         | =2636 mg/kg (Rattus)                           | > 22600 mg/kg (Oryctolagus<br>cuniculus) > 5000 mg/kg<br>(Rattus) | >0.48 g/m <sup>3</sup> (Rattus) 4 h > 5<br>g/m <sup>3</sup> (Rattus) 2 h |

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

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**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

| Method                                               | Species | Exposure route | Effective dose | Exposure time | Results  |
|------------------------------------------------------|---------|----------------|----------------|---------------|----------|
| OECD Test No. 404: Acute Dermal Irritation/Corrosion | Rabbit  |                |                |               | irritant |

**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.

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

| Method                                            | Species | Exposure route | Effective dose | Exposure time | Results      |
|---------------------------------------------------|---------|----------------|----------------|---------------|--------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            | 0.1 mL         | 24 hours      | Non-irritant |

Glycidoxypropyltrimethoxysilane (2530-83-8)

| Method                                            | Species | Exposure route | Effective dose | Exposure time | Results    |
|---------------------------------------------------|---------|----------------|----------------|---------------|------------|
| OECD Test No. 405: Acute Eye Irritation/Corrosion | Rabbit  | Eye            |                |               | Eye Damage |

**Respiratory or skin sensitization** May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** This product contains substances which in their raw state are powder form, however in this product they are in a non-respirable form. Inhalation of powder/dust particles is unlikely to occur from exposure to this product. Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer.

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                                   | ACGIH | IARC    | NTP | OSHA |
|-------------------------------------------------|-------|---------|-----|------|
| Methylenediphenyl diisocyanate<br>26447-40-5    | -     | Group 3 | -   | -    |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8 | -     | Group 3 | -   | -    |
| N-(trichloromethylthio)phthalimide<br>133-07-3  | A3    | -       | -   | -    |

## Legend

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Methylenediphenyl diisocyanate (26447-40-5)

| Method | Species | Results                                   |
|--------|---------|-------------------------------------------|
|        | in vivo | Limited evidence of a carcinogenic effect |

o-(p-isocyanatobenzyl)phenyl isocyanate (5873-54-1)

| Method                              | Species | Results      |
|-------------------------------------|---------|--------------|
| OECD Test No. 453: Combined Chronic | Rat     | Carcinogenic |

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|                                                                      |                |                                           |
|----------------------------------------------------------------------|----------------|-------------------------------------------|
| Toxicity/Carcinogenicity Studies                                     |                |                                           |
| 4,4'-Methylenediphenyl diisocyanate (101-68-8)                       |                |                                           |
| <b>Method</b>                                                        | <b>Species</b> | <b>Results</b>                            |
| OECD Test No. 453: Combined Chronic Toxicity/Carcinogenicity Studies | Rat            | Limited evidence of a carcinogenic effect |

|                                 |                                                                                                                                                     |
|---------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reproductive toxicity</b>    | Contains a known or suspected reproductive toxin. Classification based on data available for ingredients. May damage fertility or the unborn child. |
| <b>STOT - single exposure</b>   | Based on available data, the classification criteria are not met.                                                                                   |
| <b>STOT - repeated exposure</b> | May cause damage to organs through prolonged or repeated exposure.                                                                                  |
| <b>Aspiration hazard</b>        | Based on available data, the classification criteria are not met.                                                                                   |
| <b>Other adverse effects</b>    | No information available.                                                                                                                           |
| <b>Interactive effects</b>      | No information available.                                                                                                                           |

## 12. Ecological information

### 12.1. Toxicity

#### Ecotoxicity

| Chemical name                                                              | Algae/aquatic plants                                                 | Fish                                              | Toxicity to microorganisms | Crustacea                                       |
|----------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------|----------------------------|-------------------------------------------------|
| Limestone<br>1317-65-3                                                     | CE50 (72h) >200mg/L<br>Algae (Desmodesmus subspicatus)               | CL50 (96h) >10000mg/L<br>(Oncorhynchus mykiss)    | -                          | CE50 (48h) >1000 mg/L<br>Daphnia Magna          |
| Naphtha (petroleum),<br>hydrotreated heavy,<br><0.1% Benzene<br>64742-48-9 | -                                                                    | LC50: =2200mg/L (96h,<br>Pimephales promelas)     | -                          | LC50: =2.6mg/L (96h,<br>Chaetogammarus marinus) |
| Carbonic acid, calcium<br>salt (1:1)<br>471-34-1                           | IC50 72H Algae >1000<br>mg/l                                         | CL50 96H >1000 mg/l                               | -                          | EC50 48H Daphnia<br>>1000 mg/l                  |
| Methylenediphenyl<br>diisocyanate<br>26447-40-5                            | EC50: =3230mg/L (96h,<br>Skeletonema costatum)                       | -                                                 | -                          | EC50: >1000mg/L (24h,<br>Daphnia magna)         |
| Isophorone diisocyanate<br>4098-71-9                                       | EC50: =118.7mg/L (72h,<br>Desmodesmus subspicatus)                   | LC50: =1.8mg/L (48h,<br>Leuciscus idus)           | -                          | EC50: =83.7mg/L (24h,<br>Daphnia magna)         |
| o-(p-isocyanatobenzyl)ph<br>enyl isocyanate<br>5873-54-1                   | ErC50 (72h) >1640 mg/L<br>Algae (scenedesmus subspicatus) (OECD 201) | LC50 (96 h) > 1000 mg/l<br>Danio rerio (OECD 203) | -                          | EC50 (24H) >1000 mg/L<br>Daphnia magna          |
| 4,4'-Methylenediphenyl<br>diisocyanate<br>101-68-8                         | ErC50 (72h) >1640 mg/L<br>Algae (scenedesmus subspicatus) (OECD 201) | >1000 mg/l Danio rerio                            | -                          | EC50 (24H) >1000 mg/L<br>Daphnia magna          |
| Dibutyltin dilaurate<br>77-58-7                                            | EC50 1 (72h) mg/L<br>(desmodesmus subspicatus)                       | LC50: =2mg/L (48h,<br>Oryzias latipes)            | -                          | 0,463 (48h) mg/L<br>(daphnia magma)             |

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|                                           |                                                             |                                                       |   |                                       |
|-------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|---|---------------------------------------|
| Glycidoxypyltrimethoxysilane<br>2530-83-8 | EC50 (96hr): 350 mg/l<br>Pseudokirchneriella<br>subcapitata | LC50 (96h) = 55 mg/L<br>(Cyprinus carpio) OECD<br>203 | - | EC50 (48h) =473 mg/L<br>Daphnia magna |
|-------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------|---|---------------------------------------|

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** There is no data for this product.

### **Component Information**

| Chemical name                                      | Partition coefficient |
|----------------------------------------------------|-----------------------|
| Limestone<br>1317-65-3                             | 0.9                   |
| Methylenediphenyl diisocyanate<br>26447-40-5       | 4.5                   |
| 4,4'-Methylenediphenyl diisocyanate<br>101-68-8    | 4.51                  |
| Benzenesulfonyl isocyanate, 4-methyl-<br>4083-64-1 | 0.6                   |
| Dibutyltin dilaurate<br>77-58-7                    | 4.44                  |

## 12.4. Mobility in soil

**Mobility** No information available.

### Other adverse effects

**Other adverse effects** No information available.

## **13. Disposal considerations**

### 13.1. Waste treatment methods

**Waste from residues/unused products** It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

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

## **14. Transport information**

**Note:** Keep from freezing.

**DOT** Not regulated

**IATA** Not regulated

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IMDG Not regulated

## 15. Regulatory information

### International Inventories

|      |          |
|------|----------|
| TSCA | Complies |
| DSL  | Complies |

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL** - Canadian Domestic Substances List

**Complies** - The components of this product are either listed or exempt from listing on inventory. Active

**Not Listed** - One or more components of this product are not listed on inventory.

### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Chemical name                  | CAS No.    | SARA 313 - Threshold Values % |
|--------------------------------|------------|-------------------------------|
| Methylenediphenyl diisocyanate | 26447-40-5 | 1.0                           |

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

## 16. Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Legend

SVHC: Substances of Very High Concern for Authorization:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances

vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

STOT: Specific Target Organ Toxicity

ATE: Acute Toxicity Estimate

LC50: 50% Lethal Concentration

LD50: 50% Lethal Dose

#### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average)

STEL

STEL (Short Term Exposure Limit)

Ceiling Maximum limit value

Sk\*

Skin designation

Prepared By Product Stewardship and Regulatory Affairs.

Revision date 03-Oct-2024

Revision Note No information available.

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**End of Safety Data Sheet**