

## SAFETY DATA SHEET

### PARABOND® MILLENNIUM SERIES EMC 4011

Version 1.0

Revision Date 09/10/2025

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : PARABOND® MILLENNIUM SERIES EMC 4011  
Product code : 100000012015

##### Manufacturer or supplier's details

Company : TEC Specialty Products  
Address : 1105 South Frontenac  
Aurora, IL, 60504  
Telephone : 800-832-9023

Medical Emergency Phone Number (24 Hours) : 1-800-424-9300

Transport Emergency Phone Number (CHEMTREC): 1-800-424-9300

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

Recommended use : Isocyanate based product, Polyurethane resin  
Restrictions on use : For industrial use only.

#### SECTION 2. HAZARDS IDENTIFICATION

##### Emergency Overview

|            |                |
|------------|----------------|
| Appearance | paste          |
| Color      | light yellow   |
| Odor       | characteristic |

##### GHS Classification

Skin irritation : Category 2  
Eye irritation : Category 2A  
Respiratory sensitization : Category 1  
Skin sensitization : Category 1  
Specific target organ toxicity - repeated exposure : Category 2

##### GHS label elements

Hazard pictograms :



Signal Word : Danger

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**Hazard Statements:**

H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H373 May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements:**

**Prevention:** P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P272 Contaminated work clothing must not be allowed out of the workplace. P280 Wear protective gloves/ eye protection/ face protection. P285 In case of inadequate ventilation wear respiratory protection.

**Response:** P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P341 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P337 + P313 If eye irritation persists: Get medical advice/ attention. P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P362 Take off contaminated clothing and wash before reuse.

**Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

**Potential Health Effects**

Aggravated Medical Condition : None known.  
Symptoms of Overexposure : Breathing difficulties

**Carcinogenicity:****IARC**

Group 1: Carcinogenic to humans During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.  
Quartz (SiO<sub>2</sub>) 14808-60-7

**OSHA****NTP**

No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.  
Known to be human carcinogen During normal handling of the product, this substance is encapsulated within the product and will not present a cancer exposure risk.  
Quartz (SiO<sub>2</sub>) 14808-60-7

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Substance / Mixture : Mixture

**Hazardous ingredients**

| Chemical name                        | CAS-No.    | Concentration [%] |
|--------------------------------------|------------|-------------------|
| Calcium carbonate                    | 471-34-1   | 50 - 70           |
| Isocyanate Based Polymer             | 9048-57-1  | 10 - 20           |
| glass, oxide, chemicals, non-fibrous | 65997-17-3 | 1 - 5             |
| Sodium borosilicate                  | 50815-87-7 | 1 - 5             |

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|                                     |            |         |
|-------------------------------------|------------|---------|
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8   | 1 - 5   |
| Quartz (SiO <sub>2</sub> )          | 14808-60-7 | 0.1 - 1 |

Actual concentration is withheld as a trade secret

#### SECTION 4. FIRST AID MEASURES

|                                                             |                                                                                                                                                                                                                                                                                       |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General advice                                              | : Show this material safety data sheet to the doctor in attendance.                                                                                                                                                                                                                   |
| If inhaled                                                  | : Move to fresh air.<br>If symptoms persist, call a physician.                                                                                                                                                                                                                        |
| In case of skin contact                                     | : Get medical attention if irritation develops and persists.<br>Take off contaminated clothing and shoes immediately.<br>Wash contaminated clothing before re-use.                                                                                                                    |
| In case of eye contact                                      | : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.                                                                                                                                                                                   |
| If swallowed                                                | : Do not induce vomiting. If conscious, give 2 glasses of water.<br>Get immediate medical attention.                                                                                                                                                                                  |
| Most important symptoms and effects, both acute and delayed | : Breathing difficulties<br><br>Causes skin irritation.<br>May cause an allergic skin reaction.<br>Causes serious eye irritation.<br>May cause allergy or asthma symptoms or breathing difficulties if inhaled.<br>May cause damage to organs through prolonged or repeated exposure. |

#### SECTION 5. FIRE-FIGHTING MEASURES

|                                                |                                                                                                        |
|------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Suitable extinguishing media                   | : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.                             |
| Specific hazards during fire fighting          | : Burning produces irritant fumes.                                                                     |
| Special protective equipment for fire-fighters | : In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment. |

#### SECTION 6. ACCIDENTAL RELEASE MEASURES

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Personal precautions, protective equipment and emergency procedures : Refer to protective measures listed in sections 7 and 8.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.  
Shovel into suitable container for disposal.  
Neutralize with the following product(s):  
Ammonia

#### SECTION 7. HANDLING AND STORAGE

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Protect from moisture.  
Avoid inhalation, ingestion and contact with skin and eyes.

Materials to avoid : No special restrictions on storage with other products.

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

##### Ingredients with workplace control parameters

| Components                           | CAS-No.    | Value type<br>(Form of exposure)   | Control parameters /<br>Permissible concentration | Basis     |
|--------------------------------------|------------|------------------------------------|---------------------------------------------------|-----------|
| Calcium carbonate                    | 471-34-1   | PEL (Total dust)                   | 10 mg/m <sup>3</sup>                              | CAL PEL   |
|                                      |            | PEL (respirable dust fraction)     | 5 mg/m <sup>3</sup>                               | CAL PEL   |
|                                      |            | TWA (Respirable)                   | 5 mg/m <sup>3</sup>                               | NIOSH REL |
|                                      |            | TWA (total)                        | 10 mg/m <sup>3</sup>                              | NIOSH REL |
| glass, oxide, chemicals, non-fibrous | 65997-17-3 | TWA                                | 1 fibres per cubic centimeter                     | ACGIH     |
|                                      |            | TWA (Inhalable particulate matter) | 5 mg/m <sup>3</sup>                               | ACGIH     |
|                                      |            | TWA                                | 1 fibres per cubic centimeter                     | ACGIH     |
|                                      |            | TWA (fibers)                       | 1 fibres per cubic centimeter                     | ACGIH     |
|                                      |            | TWA (fibers)                       | 1 fibres per cubic centimeter                     | ACGIH     |
| 4,4'-Methylenediphenyl               | 101-68-8   | TWA                                | 0.005 ppm                                         | ACGIH     |

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|                            |            |                                        |                                                |           |
|----------------------------|------------|----------------------------------------|------------------------------------------------|-----------|
| diisocyanate               |            |                                        |                                                |           |
|                            |            | C                                      | 0.02 ppm<br>0.2 mg/m <sup>3</sup>              | OSHA Z-1  |
|                            |            | C                                      | 0.2 ppm<br>0.2 mg/m <sup>3</sup>               | NIOSH REL |
|                            |            | TWA                                    | 0.005 ppm                                      | ACGIH     |
|                            |            | C                                      | 0.02 ppm<br>0.2 mg/m <sup>3</sup>              | OSHA P0   |
|                            |            | TWA                                    | 0.005 ppm<br>0.05 mg/m <sup>3</sup>            | NIOSH REL |
|                            |            | C                                      | 0.02 ppm<br>0.2 mg/m <sup>3</sup>              | NIOSH REL |
|                            |            | PEL                                    | 0.005 ppm<br>0.051 mg/m <sup>3</sup>           | CAL PEL   |
|                            |            | TWA                                    | 0.005 ppm<br>0.05 mg/m <sup>3</sup>            | NIOSH REL |
| Quartz (SiO <sub>2</sub> ) | 14808-60-7 | TWA<br>(Respirable particulate matter) | 0.025 mg/m <sup>3</sup>                        | ACGIH     |
|                            |            | TWA (total dust)                       | 30 mg/m <sup>3</sup><br>/ %SiO <sub>2</sub> +2 | OSHA Z-3  |
|                            |            | TWA (respirable)                       | 10 mg/m <sup>3</sup><br>/ %SiO <sub>2</sub> +2 | OSHA Z-3  |
|                            |            | TWA (respirable)                       | 250 mppcf<br>/ %SiO <sub>2</sub> +5            | OSHA Z-3  |
|                            |            | TWA (Respirable fraction)              | 0.1 mg/m <sup>3</sup>                          | OSHA P0   |
|                            |            | TWA (Respirable dust)                  | 0.05 mg/m <sup>3</sup>                         | OSHA Z-1  |
|                            |            | PEL (Respirable dust)                  | 0.05 mg/m <sup>3</sup>                         | CAL PEL   |
|                            |            | TWA (respirable dust fraction)         | 0.1 mg/m <sup>3</sup>                          | OSHA P0   |

**Engineering measures** : Use local exhaust ventilation or other engineering controls to minimize exposures.

#### Personal protective equipment

Respiratory protection : Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

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|                  |                                                                                |
|------------------|--------------------------------------------------------------------------------|
| Hand protection  |                                                                                |
| Material         | : Nitrile rubber                                                               |
| Eye protection   | : Safety glasses with side-shields                                             |
| Hygiene measures | : Avoid contact with skin, eyes and clothing.<br>Provide adequate ventilation. |

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#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                         |                                                 |
|-----------------------------------------|-------------------------------------------------|
| Appearance                              | : paste                                         |
| Color                                   | : light yellow                                  |
| Odor                                    | : characteristic                                |
| Odor Threshold                          | : no data available                             |
| pH                                      | : Not applicable                                |
| Melting point/freezing point            | : is not determined                             |
| Initial boiling point and boiling range | : is not determined                             |
| Flash point                             | : 100 °CMethod: closed cupNot applicable        |
| Evaporation rate                        | : is not determined                             |
| Flammability (solid, gas)               | : Not classified as a flammability hazard       |
| Upper explosion limit                   | : Upper flammability limit<br>is not determined |
| Lower explosion limit                   | : Lower flammability limit<br>is not determined |
| Vapor pressure                          | : is not determined                             |
| Density                                 | : 1.27 g/cm3                                    |
| Solubility(ies)                         |                                                 |
| Water solubility                        | : is not determined                             |
| Partition coefficient: n-octanol/water  | : no data available                             |
| Autoignition temperature                | : is not determined                             |
| Viscosity                               |                                                 |
| Viscosity, kinematic                    | : is not determined                             |

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#### SECTION 10. STABILITY AND REACTIVITY

|                    |                                                                                               |
|--------------------|-----------------------------------------------------------------------------------------------|
| Reactivity         | : Container can be pressurized by carbon dioxide due to reaction with humid air and/or water. |
| Chemical stability | : The product is chemically stable.                                                           |

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Possibility of hazardous reactions : Hazardous polymerization does not occur.  
Incompatible materials : Amines  
Strong acids and strong bases  
Hazardous decomposition products : Stable under normal conditions.

**SECTION 11. TOXICOLOGICAL INFORMATION****Acute toxicity****Product:**

Acute inhalation toxicity : Acute toxicity estimate : 72.86 mg/l  
Exposure time: 4 Hours  
Test atmosphere: dust/mist  
Method: Calculation method

**Components:****4,4'-Methylenediphenyl diisocyanate:**

Acute inhalation toxicity : Acute toxicity estimate : 1.5 mg/l  
Test atmosphere: dust/mist  
Method: Expert judgment

**Skin corrosion/irritation**

No data available

**Serious eye damage/eye irritation**

No data available

**Respiratory or skin sensitization**

No data available

**Germ cell mutagenicity**

No data available

**Carcinogenicity**

No data available

**Reproductive toxicity**

No data available

**STOT-single exposure**

No data available

**STOT-repeated exposure**

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No data available

**Aspiration toxicity**

No data available

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**SECTION 12. ECOLOGICAL INFORMATION****Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential****Mobility in soil**

No data available

**Other adverse effects**

No data available

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**SECTION 13. DISPOSAL CONSIDERATIONS****Disposal methods**

Waste from residues : To the best of our knowledge, this product does not meet the definition of hazardous waste under the U.S. EPA Hazardous Waste Regulations 40 CFR 261. Disposal via incineration at an approved facility is recommended, as industry best practice. Consult state, local or provincial authorities for more restrictive requirements.

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**SECTION 14. TRANSPORT INFORMATION****International Regulations****UNRTDG**

Not regulated as a dangerous good

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**

Not regulated as a dangerous good

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable for product as supplied.

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**Domestic regulation****49 CFR**

Not regulated as a dangerous good

**SECTION 15. REGULATORY INFORMATION**

**SARA 311/312 Hazards** : Respiratory or skin sensitization  
Specific target organ toxicity (single or repeated exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

|                                     |           |
|-------------------------------------|-----------|
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8  |
| Polymethylene polyphenyl isocyanate | 9016-87-9 |

**Clean Air Act**

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 112 (40 CFR 61):

|                                     |          |
|-------------------------------------|----------|
| 4,4'-Methylenediphenyl diisocyanate | 101-68-8 |
|-------------------------------------|----------|

**US State Regulations**

**California Prop 65** Please contact Supplier for more information.

**The ingredients of this product are reported in the following inventories:**

**TSCA** All substances listed as active on the TSCA inventory

**DSL** All components of this product are on the Canadian DSL

**TSCA** All substances listed as active on the TSCA inventory

**DSL** All components of this product are on the Canadian DSL

Please reach out to TEC Specialty Products LLC for further information regarding chemical inventories not listed above. **Inventories Legend** TSCA (USA), DSL (Canada), REACH(Europe), AIIIC (Australia), NZIoC (New Zealand), ENCS (Japan), KECI (Korea), PICCS (Philippines), IECSC (China), TWINV (Taiwan)

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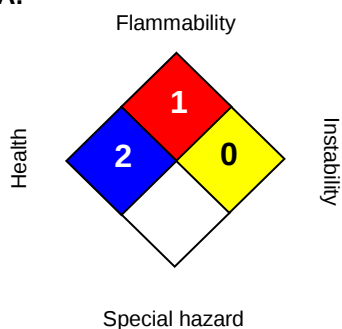
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#### SECTION 16. OTHER INFORMATION

##### Further information

##### NFPA:



##### HMIS III:

|                        |           |
|------------------------|-----------|
| <b>HEALTH</b>          | <b>2*</b> |
| <b>FLAMMABILITY</b>    | <b>1</b>  |
| <b>PHYSICAL HAZARD</b> | <b>0</b>  |

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High  
4 = Extreme, \* = Chronic