



EUCLID CHEMICAL

Version: 1.1  
Revision Date: 11/17/2022

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This is a kit that contains the following components:

DURAL 106 CLASS E PART A 20.5#

DURAL 106 CLASS E PART B (60 F - 90 F)

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** DURAL 106 CLASS E PART A 20.5#  
**Product Code:** TD63133

### Recommended use and restriction on use

**Recommended use:** Sealant  
**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY  
19218 REDWOOD ROAD  
CLEVELAND OH 44110  
US

**Contact person:** EH&S Department  
**Telephone:** 216-531-9222  
**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

|                                   |             |
|-----------------------------------|-------------|
| Serious Eye Damage/Eye Irritation | Category 2B |
| Skin sensitizer                   | Category 1  |
| Carcinogenicity                   | Category 1A |

#### Unknown toxicity - Health

|                                          |         |
|------------------------------------------|---------|
| Acute toxicity, oral                     | 23.16 % |
| Acute toxicity, dermal                   | 25.55 % |
| Acute toxicity, inhalation, vapor        | 100 %   |
| Acute toxicity, inhalation, dust or mist | 99.65 % |

### Label Elements

#### Hazard Symbol:



**Signal Word:** Danger

**Hazard Statement:** Causes eye irritation.  
May cause an allergic skin reaction.  
May cause cancer.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

**Response:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse.

**Storage:** Store locked up.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity                        | CAS number   | Content in percent (%)* |
|------------------------------------------|--------------|-------------------------|
| Bisphenol A Polyglycidyl Ether Resin     | 25068-38-6   | 60 - 100%               |
| Calcium carbonate                        | 471-34-1     | 10 - 30%                |
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7   | 7 - 13%                 |
| Titanium dioxide                         | 13463-67-7   | 1 - 5%                  |
| Trade Secret                             | Trade Secret | 0.1 - 1%                |
| Aluminum oxide                           | 1344-28-1    | 0.1 - 1%                |
| Magnesite                                | 546-93-0     | 0.1 - 1%                |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

**Inhalation:** Move to fresh air.

|                                                      |                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin Contact:</b>                                 | If skin irritation occurs: Get medical advice/attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |
| <b>Eye contact:</b>                                  | Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. If eye irritation persists: Get medical advice/attention.                                                                                                           |
| <b>Ingestion:</b>                                    | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.                                                                                                                                                                                                                              |
| <b>Personal Protection for First-aid Responders:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                                                                                                                             |

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

|                  |                                    |
|------------------|------------------------------------|
| <b>Symptoms:</b> | May cause skin and eye irritation. |
| <b>Hazards:</b>  | No data available.                 |

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

|                   |                          |
|-------------------|--------------------------|
| <b>Treatment:</b> | Symptoms may be delayed. |
|-------------------|--------------------------|

|                                  |
|----------------------------------|
| <b>5. Fire-fighting measures</b> |
|----------------------------------|

|                              |                                             |
|------------------------------|---------------------------------------------|
| <b>General Fire Hazards:</b> | No unusual fire or explosion hazards noted. |
|------------------------------|---------------------------------------------|

**Suitable (and unsuitable) extinguishing media**

|                                        |                                                                        |
|----------------------------------------|------------------------------------------------------------------------|
| <b>Suitable extinguishing media:</b>   | Use fire-extinguishing media appropriate for surrounding materials.    |
| <b>Unsuitable extinguishing media:</b> | Do not use water jet as an extinguisher, as this will spread the fire. |

|                                                    |                                                       |
|----------------------------------------------------|-------------------------------------------------------|
| <b>Specific hazards arising from the chemical:</b> | During fire, gases hazardous to health may be formed. |
|----------------------------------------------------|-------------------------------------------------------|

**Special protective equipment and precautions for fire-fighters**

|                                                        |                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Special fire-fighting procedures:</b>               | No data available.                                                                            |
| <b>Special protective equipment for fire-fighters:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

|                                       |
|---------------------------------------|
| <b>6. Accidental release measures</b> |
|---------------------------------------|

|                                                                             |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| <b>Accidental release measures:</b>                                         | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.                                                                         |
| <b>Methods and material for containment and cleaning up:</b>                | Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.               |
| <b>Environmental Precautions:</b>                                           | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.                                                                                                  |

## 7. Handling and storage

### Handling

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical measures (e.g. Local and general ventilation):</b> | Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.                                                                                                                                                                                          |
| <b>Safe handling advice:</b>                                    | Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Wash hands thoroughly after handling. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| <b>Contact avoidance measures:</b>                              | No data available.                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Hygiene measures:</b>                                        | Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.                                                                                                                                                                                       |

### Storage

|                                  |                    |
|----------------------------------|--------------------|
| <b>Safe storage conditions:</b>  | Store locked up.   |
| <b>Safe packaging materials:</b> | No data available. |

## 8. Exposure controls/personal protection

### Control Parameters

#### Occupational Exposure Limits

| Chemical Identity                        | Type | Exposure Limit Values | Source                                                                                  |
|------------------------------------------|------|-----------------------|-----------------------------------------------------------------------------------------|
| Calcium carbonate - Total dust.          | PEL  | 15 mg/m3              | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Calcium carbonate - Respirable fraction. | PEL  | 5 mg/m3               | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Calcium carbonate - Total dust.          | PEL  | 15 mg/m3              | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017) |
| Calcium carbonate - Respirable fraction. | TWA  | 5 mg/m3               | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                             |



|                                                                 |          |                                                 |                                                                                          |
|-----------------------------------------------------------------|----------|-------------------------------------------------|------------------------------------------------------------------------------------------|
| Calcium carbonate - Inhalable particles.                        | TWA      | 10 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (01 2021)                                   |
| Calcium carbonate - Respirable particles.                       | TWA      | 3 mg/m3                                         | US. ACGIH Threshold Limit Values, as amended (01 2021)                                   |
| Calcium carbonate - Respirable fraction.                        | TWA      | 15 millions of particles per cubic foot of air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Calcium carbonate - Total dust.                                 | TWA      | 15 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
|                                                                 | TWA      | 50 millions of particles per cubic foot of air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Calcium carbonate - Respirable fraction.                        | PEL      | 5 mg/m3                                         | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (01 2017)  |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.     | TWA      | 0.05 mg/m3                                      | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
|                                                                 | OSHA_ACT | 0.025 mg/m3                                     | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.     | PEL      | 0.05 mg/m3                                      | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)  |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable.          | TWA      | 2.4 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
|                                                                 | TWA      | 0.1 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA      | 0.025 mg/m3                                     | US. ACGIH Threshold Limit Values, as amended (02 2020)                                   |
| Titanium dioxide                                                | TWA      | 10 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (2008)                                      |
| Titanium dioxide - Total dust.                                  | PEL      | 15 mg/m3                                        | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Titanium dioxide - Respirable fraction.                         | TWA      | 15 millions of particles per cubic foot of air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                              |
| Titanium dioxide - Total dust.                                  | TWA      | 15 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                              |
| Titanium dioxide - Respirable fraction.                         | TWA      | 5 mg/m3                                         | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                              |
| Titanium dioxide - Total dust.                                  | TWA      | 50 millions of particles per cubic foot of air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                              |
| Trade Secret - Inhalable particles.                             | TWA      | 10 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (03 2015)                                   |
| Trade Secret - Respirable particles.                            | TWA      | 3 mg/m3                                         | US. ACGIH Threshold Limit Values, as amended (03 2015)                                   |
| Trade Secret - Respirable fraction.                             | PEL      | 5 mg/m3                                         | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Trade Secret - Total dust.                                      | PEL      | 15 mg/m3                                        | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
|                                                                 | TWA      | 15 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
|                                                                 | TWA      | 50 millions of particles per cubic foot of air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |



|                                        |     |                                                |                                                                                         |
|----------------------------------------|-----|------------------------------------------------|-----------------------------------------------------------------------------------------|
| Trade Secret - Respirable fraction.    | TWA | 5 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                |
|                                        | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                |
| Aluminum oxide - Respirable fraction.  | TWA | 1 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (2011)                                     |
|                                        | PEL | 5 mg/m3                                        | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Aluminum oxide - Total dust.           | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
|                                        | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                             |
| Aluminum oxide - Respirable fraction.  | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                             |
|                                        | TWA | 5 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                             |
| Aluminum oxide - Total dust.           | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)                             |
| Aluminum oxide - Inhalable particles.  | TWA | 10 mg/m3                                       | US. ACGIH Threshold Limit Values, as amended (01 2021)                                  |
| Aluminum oxide - Respirable particles. | TWA | 3 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (01 2021)                                  |
| Magnesite - Total dust.                | PEL | 15 mg/m3                                       | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Magnesite - Respirable fraction.       | PEL | 5 mg/m3                                        | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006) |
| Magnesite - Total dust.                | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                             |
| Magnesite - Respirable particles.      | TWA | 3 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (01 2021)                                  |
| Magnesite - Total dust.                | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                             |
| Magnesite - Inhalable particles.       | TWA | 10 mg/m3                                       | US. ACGIH Threshold Limit Values, as amended (01 2021)                                  |
| Magnesite - Respirable fraction.       | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                             |
|                                        | TWA | 5 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                             |



| Chemical name                                                   | Type | Exposure Limit Values | Source                                                                                                                                                                   |
|-----------------------------------------------------------------|------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium carbonate - Total dust.                                 | STEL | 20 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Respirable fraction.                        | TWA  | 3 mg/m3               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Total dust.                                 | TWA  | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium carbonate - Total dust.                                 | TWA  | 10 mg/m3              | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Calcium carbonate - Respirable fraction.                        | TWA  | 3 mg/m3               | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)                                                                       |
|                                                                 | TWA  | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020) |
| Calcium carbonate - Respirable fraction.                        | TWA  | 3 mg/m3               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020) |
| Calcium carbonate - Respirable particles.                       | TWA  | 3 mg/m3               | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)                                                                       |
| Calcium carbonate - Inhalable particles.                        | TWA  | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)                                                                       |
| Calcium carbonate - Inhalable fraction.                         | TWA  | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (01 2020)                                                                       |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA  | 0.10 mg/m3            | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)                                                                       |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.     | TWA  | 0.1 mg/m3             | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA  | 0.025 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020) |
| Titanium dioxide - Total dust.                                  | TWA  | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide - Respirable fraction.                         | TWA  | 3 mg/m3               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Titanium dioxide                                                | TWA  | 10 mg/m3              | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)                                                                       |
| Titanium dioxide - Total dust.                                  | TWA  | 10 mg/m3              | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |

**Biological Limit Values**

| Chemical Identity | Exposure Limit Values | Source |
|-------------------|-----------------------|--------|
|-------------------|-----------------------|--------|



|                                                      |                 |                     |
|------------------------------------------------------|-----------------|---------------------|
| Methanol (methanol:<br>Sampling time: End of shift.) | 15 mg/l (Urine) | ACGIH BEI (03 2013) |
|------------------------------------------------------|-----------------|---------------------|

**Appropriate Engineering Controls** Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

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

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

#### Skin Protection

**Hand Protection:** Additional Information: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:** Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:** Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin.

### 9. Physical and chemical properties

#### Appearance

|                                                              |                                                                                             |
|--------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>Physical state:</b>                                       | liquid                                                                                      |
| <b>Form:</b>                                                 | liquid                                                                                      |
| <b>Color:</b>                                                | White                                                                                       |
| <b>Odor:</b>                                                 | Mild                                                                                        |
| <b>Odor threshold:</b>                                       | No data available.                                                                          |
| <b>pH:</b>                                                   | No data available.                                                                          |
| <b>Melting point/freezing point:</b>                         | No data available.                                                                          |
| <b>Initial boiling point and boiling range:</b>              | No data available.                                                                          |
| <b>Flash Point:</b>                                          | > 93 °C > 200 °F (Setaflash Closed Cup)                                                     |
| <b>Evaporation rate:</b>                                     | Slower than Ether                                                                           |
| <b>Flammability (solid, gas):</b>                            | No                                                                                          |
| <b>Upper/lower limit on flammability or explosive limits</b> |                                                                                             |
| <b>Flammability limit - upper (%):</b>                       | No data available.                                                                          |
| <b>Flammability limit - lower (%):</b>                       | No data available.                                                                          |
| <b>Explosive limit - upper:</b>                              | No data available.                                                                          |
| <b>Explosive limit - lower:</b>                              | No data available.                                                                          |
| <b>Vapor pressure:</b>                                       | No data available.                                                                          |
| <b>Vapor density:</b>                                        | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |



|                                          |                    |
|------------------------------------------|--------------------|
| Relative density:                        | 1.295              |
| Solubility(ies)                          |                    |
| Solubility in water:                     | Insoluble in water |
| Solubility (other):                      | No data available. |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature:               | No data available. |
| Decomposition temperature:               | No data available. |
| Viscosity:                               | No data available. |

## 10. Stability and reactivity

|                                     |                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------|
| Reactivity:                         | No data available.                                                                              |
| Chemical Stability:                 | Material is stable under normal conditions.                                                     |
| Possibility of hazardous reactions: | No data available.                                                                              |
| Conditions to avoid:                | Avoid heat or contamination.                                                                    |
| Incompatible Materials:             | No data available.                                                                              |
| Hazardous Decomposition Products:   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

### Information on likely routes of exposure

|               |                                                                                                        |
|---------------|--------------------------------------------------------------------------------------------------------|
| Inhalation:   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.          |
| Skin Contact: | May be harmful in contact with skin. Causes mild skin irritation. May cause an allergic skin reaction. |
| Eye contact:  | Causes eye irritation.                                                                                 |
| Ingestion:    | May be ingested by accident. Ingestion may cause irritation and malaise.                               |

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

|               |                    |
|---------------|--------------------|
| Inhalation:   | No data available. |
| Skin Contact: | No data available. |
| Eye contact:  | No data available. |
| Ingestion:    | No data available. |

## Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

#### Oral

**Product:** Not classified for acute toxicity based on available data.

#### Dermal

**Product:** ATEmix: 3,665.15 mg/kg

#### Inhalation

**Product:** Not classified for acute toxicity based on available data.

### Repeated dose toxicity

**Product:** No data available.

### Skin Corrosion/Irritation

**Product:** No data available.

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

### Respiratory or Skin Sensitization

**Product:** No data available.

### Carcinogenicity

**Product:** No data available.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

|                                                |                                                      |
|------------------------------------------------|------------------------------------------------------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Overall evaluation: Carcinogenic to humans.          |
| Titanium dioxide                               | Overall evaluation: Possibly carcinogenic to humans. |

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

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Known To Be Human Carcinogen. |
|------------------------------------------------|-------------------------------|

### US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified

#### Germ Cell Mutagenicity

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**  
**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.

**Aspiration Hazard**  
**Product:** No data available.

**Other effects:** Constituents of this product may include crystalline silica which, if in inhalable form, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

## 12. Ecological information

#### Ecotoxicity:

##### Acute hazards to the aquatic environment:

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

##### Chronic hazards to the aquatic environment:

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Partition Coefficient n-octanol / water (log K<sub>ow</sub>)**

**Product:** No data available.

**Mobility in soil:**

No data available.

**Other adverse effects:**

No data available.

**13. Disposal considerations**

**Disposal methods:**

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:**

No data available.

**14. Transport information**

**TDG:**

Not Regulated

**CFR / DOT:**

Not Regulated

**IMDG:**

Not Regulated

**15. Regulatory information**

**US Federal Regulations**

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

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs)  
(40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

| <u>Chemical Identity</u> | <u>Reportable quantity</u> |
|--------------------------|----------------------------|
| Methanol                 | 5000 lbs.                  |

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

**Hazard categories**

Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and  
the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous  
Substances**

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

| <u>Chemical Identity</u> | <u>% by weight</u> |
|--------------------------|--------------------|
|--------------------------|--------------------|

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

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International regulations**

**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:  
0 g/l



Regulatory VOC (less water and  
exempt solvent) : 0 g/l

VOC Method 310 : 0.00 %

**Inventory Status:**

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Australia AICS:                          | All components in this product are listed on or exempt from the Inventory.             |
| EINECS, ELINCS or NLP:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | All components in this product are listed on or exempt from the Inventory.             |
| Korea Existing Chemicals Inv. (KECI):    | All components in this product are listed on or exempt from the Inventory.             |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | All components in this product are listed on or exempt from the Inventory.             |
| New Zealand Inventory of Chemicals:      | All components in this product are listed on or exempt from the Inventory.             |
| Japan ISHL Listing:                      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List:               | All components in this product are listed on or exempt from the Inventory.             |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |

|                                                                              |
|------------------------------------------------------------------------------|
| <b>16. Other information, including date of preparation or last revision</b> |
|------------------------------------------------------------------------------|

**Revision Date:** 11/17/2022

**Version #:** 1.1

**Further Information:** No data available.

**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** DURAL 106 CLASS E PART B (60 F - 90 F)  
**Product Code:** TD63133

### Recommended use and restriction on use

**Recommended use:** Curative  
**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

EUCLID CHEMICAL COMPANY  
19218 REDWOOD ROAD  
CLEVELAND OH 44110  
US

**Contact person:** EH&S Department  
**Telephone:** 216-531-9222  
**Emergency telephone number:** 1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

|                                   |             |
|-----------------------------------|-------------|
| Skin Corrosion/Irritation         | Category 2  |
| Serious Eye Damage/Eye Irritation | Category 2A |
| Skin sensitizer                   | Category 1  |
| Carcinogenicity                   | Category 1A |

#### Unknown toxicity - Health

|                                          |         |
|------------------------------------------|---------|
| Acute toxicity, oral                     | 84.01 % |
| Acute toxicity, dermal                   | 97.01 % |
| Acute toxicity, inhalation, vapor        | 100 %   |
| Acute toxicity, inhalation, dust or mist | 99.9 %  |

### Label Elements

#### Hazard Symbol:



|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Signal Word:</b>                               | Danger                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Hazard Statement:</b>                          | Causes skin irritation.<br>Causes serious eye irritation.<br>May cause an allergic skin reaction.<br>May cause cancer.                                                                                                                                                                                                                                                                                                                     |
| <b>Precautionary Statements</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Prevention:</b>                                | Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.                                        |
| <b>Response:</b>                                  | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Specific treatment (see on this label). Wash contaminated clothing before reuse. |
| <b>Storage:</b>                                   | Store locked up.                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Disposal:</b>                                  | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.                                                                                                                                                                                                                                                       |
| <b>Hazard(s) not otherwise classified (HNOC):</b> | None.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical Identity                        | CAS number | Content in percent (%)* |
|------------------------------------------|------------|-------------------------|
| Tetraethylene pentamine                  | 112-57-2   | 10 - 30%                |
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | 10 - 30%                |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

#### Description of necessary first-aid measures

|                      |                                                                                                                                                                                                                                                         |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | Move to fresh air.                                                                                                                                                                                                                                      |
| <b>Skin Contact:</b> | Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |

|                                                      |                                                                                                                              |
|------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact:</b>                                  | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. |
| <b>Ingestion:</b>                                    | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.                                                                 |
| <b>Personal Protection for First-aid Responders:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                |

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

|                  |                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------|
| <b>Symptoms:</b> | Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. |
| <b>Hazards:</b>  | No data available.                                                                                  |

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

|                   |                          |
|-------------------|--------------------------|
| <b>Treatment:</b> | Symptoms may be delayed. |
|-------------------|--------------------------|

|                                  |
|----------------------------------|
| <b>5. Fire-fighting measures</b> |
|----------------------------------|

|                              |                                             |
|------------------------------|---------------------------------------------|
| <b>General Fire Hazards:</b> | No unusual fire or explosion hazards noted. |
|------------------------------|---------------------------------------------|

**Suitable (and unsuitable) extinguishing media**

|                                        |                                                                        |
|----------------------------------------|------------------------------------------------------------------------|
| <b>Suitable extinguishing media:</b>   | Use fire-extinguishing media appropriate for surrounding materials.    |
| <b>Unsuitable extinguishing media:</b> | Do not use water jet as an extinguisher, as this will spread the fire. |

|                                                    |                                                       |
|----------------------------------------------------|-------------------------------------------------------|
| <b>Specific hazards arising from the chemical:</b> | During fire, gases hazardous to health may be formed. |
|----------------------------------------------------|-------------------------------------------------------|

**Special protective equipment and precautions for fire-fighters**

|                                                        |                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Special fire-fighting procedures:</b>               | No data available.                                                                            |
| <b>Special protective equipment for fire-fighters:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

|                                       |
|---------------------------------------|
| <b>6. Accidental release measures</b> |
|---------------------------------------|

|                                                                             |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| <b>Accidental release measures:</b>                                         | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.                                                                         |

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

Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

**Environmental Precautions:**

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

**7. Handling and storage****Handling****Technical measures (e.g. Local and general ventilation):**

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Safe handling advice:**

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Avoid contact with eyes. Avoid contact with skin. Avoid contact with eyes, skin, and clothing.

**Contact avoidance measures:**

No data available.

**Hygiene measures:**

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

**Storage****Safe storage conditions:**

Store locked up.

**Safe packaging materials:**

No data available.

**8. Exposure controls/personal protection****Control Parameters****Occupational Exposure Limits**

| Chemical Identity                                                     | Type     | Exposure Limit Values                                    | Source                                                                                   |
|-----------------------------------------------------------------------|----------|----------------------------------------------------------|------------------------------------------------------------------------------------------|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA      | 0.05 mg/m <sup>3</sup>                                   | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
|                                                                       | OSHA_ACT | 0.025 mg/m <sup>3</sup>                                  | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | PEL      | 0.05 mg/m <sup>3</sup>                                   | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable.             | TWA      | 2.4 millions<br>of particles<br>per cubic foot<br>of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
|                                                                       | TWA      | 0.1 mg/m <sup>3</sup>                                    | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA      | 0.025 mg/m <sup>3</sup>                                  | US. ACGIH Threshold Limit Values, as amended (02 2020)                                   |



| Chemical name                                                         | Type | Exposure Limit Values   | Source                                                                                                                                                                            |
|-----------------------------------------------------------------------|------|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA  | 0.10 mg/m <sup>3</sup>  | Canada. Ontario OELs. (Control of Exposure to<br>Biological or Chemical Agents), as amended<br>(06 2015)                                                                          |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA  | 0.1 mg/m <sup>3</sup>   | Canada. Quebec OELs. (Ministry of Labor -<br>Regulation respecting occupational health and<br>safety), as amended (09 2017)                                                       |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA  | 0.025 mg/m <sup>3</sup> | Canada. British Columbia OELs. (Occupational<br>Exposure Limits for Chemical Biological<br>Substances, Occupational Health and Safety<br>Regulation 296/97, as amended) (06 2020) |

**Appropriate Engineering  
Controls**

Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

**Individual protection measures, such as personal protective equipment****Eye/face protection:**

Wear safety glasses with side shields (or goggles).

**Skin Protection****Hand Protection:**

Additional Information: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:**

Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

**Respiratory Protection:**

In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

**Hygiene measures:**

Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Avoid contact with eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.

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

liquid

**Form:**

liquid

**Color:**

Black

**Odor:**

Mild pungent

**Odor threshold:**

No data available.

**pH:**

No data available.

**Melting point/freezing point:**

No data available.

**Initial boiling point and boiling range:**

No data available.

**Flash Point:**

&gt; 93 °C &gt; 200 °F (Setaflash Closed Cup)

**Evaporation rate:**

Slower than Ether

**Flammability (solid, gas):**

No

**Upper/lower limit on flammability or explosive limits**

|                                          |                                                                                             |
|------------------------------------------|---------------------------------------------------------------------------------------------|
| Flammability limit - upper (%):          | No data available.                                                                          |
| Flammability limit - lower (%):          | No data available.                                                                          |
| Explosive limit - upper:                 | No data available.                                                                          |
| Explosive limit - lower:                 | No data available.                                                                          |
| Vapor pressure:                          | No data available.                                                                          |
| Vapor density:                           | Vapors are heavier than air and may travel along the floor and in the bottom of containers. |
| Relative density:                        | 1.03                                                                                        |
| Solubility(ies)                          |                                                                                             |
| Solubility in water:                     | Insoluble in water                                                                          |
| Solubility (other):                      | No data available.                                                                          |
| Partition coefficient (n-octanol/water): | No data available.                                                                          |
| Auto-ignition temperature:               | No data available.                                                                          |
| Decomposition temperature:               | No data available.                                                                          |
| Viscosity:                               | No data available.                                                                          |

**10. Stability and reactivity**

|                                     |                                                                                                 |
|-------------------------------------|-------------------------------------------------------------------------------------------------|
| Reactivity:                         | No data available.                                                                              |
| Chemical Stability:                 | Material is stable under normal conditions.                                                     |
| Possibility of hazardous reactions: | No data available.                                                                              |
| Conditions to avoid:                | Avoid heat or contamination.                                                                    |
| Incompatible Materials:             | Strong acids.                                                                                   |
| Hazardous Decomposition Products:   | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

**11. Toxicological information****Information on likely routes of exposure**

|               |                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------|
| Inhalation:   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes. |
| Skin Contact: | Causes skin irritation. May cause an allergic skin reaction.                                  |
| Eye contact:  | Causes serious eye irritation.                                                                |
| Ingestion:    | May be harmful if swallowed.                                                                  |

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

|               |                    |
|---------------|--------------------|
| Inhalation:   | No data available. |
| Skin Contact: | No data available. |

**Eye contact:** No data available.

**Ingestion:** No data available.

#### Information on toxicological effects

##### Acute toxicity (list all possible routes of exposure)

###### Oral

**Product:** ATEmix: 2,709.96 mg/kg

###### Dermal

**Product:** Not classified for acute toxicity based on available data.

###### Inhalation

**Product:** Not classified for acute toxicity based on available data.

###### Specified substance(s):

Crystalline Silica  
(Quartz)/ Silica Sand LC 50: > 5.0 mg/l

##### Repeated dose toxicity

**Product:** No data available.

##### Skin Corrosion/Irritation

**Product:** No data available.

##### Serious Eye Damage/Eye Irritation

**Product:** No data available.

##### Respiratory or Skin Sensitization

**Product:** No data available.

##### Carcinogenicity

**Product:** No data available.

#### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Crystalline Silica  
(Quartz)/ Silica  
Sand Overall evaluation: Carcinogenic to humans.

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

Crystalline Silica  
(Quartz)/ Silica  
Sand Known To Be Human Carcinogen.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

**In vivo**

**Product:** No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:**

Constituents of this product may include crystalline silica which, if in inhalable form, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

|                                   |
|-----------------------------------|
| <b>12. Ecological information</b> |
|-----------------------------------|

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Chronic hazards to the aquatic environment:**

**Fish**  
**Product:** No data available.

**Aquatic Invertebrates**  
**Product:** No data available.

**Toxicity to Aquatic Plants**  
**Product:** No data available.

**Persistence and Degradability**

**Biodegradation**  
**Product:** No data available.

**BOD/COD Ratio**  
**Product:** No data available.

**Bioaccumulative potential**  
**Bioconcentration Factor (BCF)**  
**Product:** No data available.

**Partition Coefficient n-octanol / water (log Kow)**  
**Product:** No data available.

**Specified substance(s):**  
Tetraethylene pentamine Log Kow: 1.503

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

|                                    |
|------------------------------------|
| <b>13. Disposal considerations</b> |
|------------------------------------|

**Disposal methods:** Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated Packaging:** No data available.

|                                  |
|----------------------------------|
| <b>14. Transport information</b> |
|----------------------------------|

**TDG:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (Alkaline Amine), 8, PG III

**CFR / DOT:**

UN2735, Amines, liquid, corrosive, n.o.s. (Alkaline Amine), 8, PG III

**IMDG:**

UN2735, AMINES, LIQUID, CORROSIVE, N.O.S. (Alkaline Amine), 8, PG III

**Further Information:**

The above shipping description may not be accurate for all container sizes and all modes of transportation.  
Please refer to Bill of Lading.

|                                   |
|-----------------------------------|
| <b>15. Regulatory information</b> |
|-----------------------------------|

**US Federal Regulations**

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

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs)  
(40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

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

**Hazard categories**

Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and  
the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous  
Substances**

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**

**Chemical Identity**

**% by weight**

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

None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**

None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

**International regulations**



**Montreal protocol**

Not applicable

**Stockholm convention**

Not applicable

**Rotterdam convention**

Not applicable

**Kyoto protocol**

Not applicable

**VOC:** When appropriately mixed with the other part, product has a VOC less water and exempt solvent of:  
0 g/l

Regulatory VOC (less water and exempt solvent) : 0 g/l

VOC Method 310 : 0.00 %

**Inventory Status:**

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Australia AICS:                          | All components in this product are listed on or exempt from the Inventory.             |
| EINECS, ELINCS or NLP:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | All components in this product are listed on or exempt from the Inventory.             |
| Korea Existing Chemicals Inv. (KECI):    | All components in this product are listed on or exempt from the Inventory.             |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | All components in this product are listed on or exempt from the Inventory.             |
| New Zealand Inventory of Chemicals:      | All components in this product are listed on or exempt from the Inventory.             |
| Japan ISHL Listing:                      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List:               | All components in this product are listed on or exempt from the Inventory.             |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |

|                                                                              |
|------------------------------------------------------------------------------|
| <b>16. Other information, including date of preparation or last revision</b> |
|------------------------------------------------------------------------------|

**Revision Date:** 11/17/2022

**Version #:** 1.1

**Further Information:** No data available.

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