



## Safety Data Sheet

### Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1 Product identifier

**Product Name** • **Corefix® Stabilizer Ply**

**Synonyms** • E-796 Epoxy Prepreg/Fiberglass Reinforced

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

**Relevant identified use(s)** • Prepreg for aerospace structions

**Use(s) advised against** • Consumer goods in direct contact with food stuffs, potable water, or continuous skin contact

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

**Manufacturer** • Park Aerospace Corp.  
486 North Oliver Road, Building Z  
Newton City/County Airport Newton, KS 67114  
United States

MSDSrequest@parkelectro.com

**Telephone (General)** • 1-316-283-6500

#### 1.4 Emergency telephone number

**Manufacturer** • 1-316-283-6500 - (8AM - 5PM CST) M-F

**Manufacturer** • 33 (0)1 45 42 59 59 - France - ORFILA (INRS)

**Manufacturer** • 030/19240 - Germany - BBGes - Giftnotruf Berlin Inst. f. Toxikologie

**Manufacturer** • 65 6861 7117 - Asia

**Manufacturer** • 1-800-424-9300 - CHEMTREC (US and Canada only)

### Section 2: Hazards Identification

#### EU/EEC

According to Regulation (EC) No 1272/2008 (CLP)/REACH 1907/2006 [amended by 453/2010]

According to EU Directive 67/548/EEC (DSD) or 1999/45/EC (DPD)

#### 2.1 Classification of the substance or mixture

**CLP** • Skin Irritation 2 - H315  
Skin Sensitization 1 - H317  
Eye Irritation 2 - H319



Reproductive Toxicity 1B – H360D  
Hazardous to the aquatic environment Chronic 2 - H411

- Toxic (T)  
Irritant (Xi)  
Substances Toxic to Reproduction – Category 2  
Dangerous to the Environment (N)  
R36, R38, R43, R51, R53, R61

## 2.2 Label Elements

### CLP

#### DANGER



- Hazard statements**
- H315 - Causes skin irritation
  - H317 - May cause an allergic skin reaction
  - H319 - Causes serious eye irritation
  - H360D - May damage the unborn child
  - H411 - Toxic to aquatic life with long lasting effects

#### Precautionary statements

- Prevention**
- P201 - Obtain special instructions before use.
  - P202 - Do not handle until all safety precautions have been read and understood.
  - P261 - Avoid breathing dust.
  - P264 - Wash thoroughly after handling.
  - P272 - Contaminated work clothing should not be allowed out of the workplace.
  - P273 - Avoid release to the environment.
  - P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response**
- P312 – Call a POISON CENTER or doctor/physician if you feel unwell.
  - P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
  - P363 - Wash contaminated clothing before reuse.
  - P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
  - P321 - Specific treatment, see supplemental first aid information.
  - P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
  - P337+P313 - If eye irritation persists: Get medical advice/attention.
  - P308+P313 - IF exposed or concerned: Get medical advice/attention.
  - P391 - Collect spillage.

- Storage/Disposal**
- P235 – Keep cool.
  - P405 - Store locked up.
  - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

## 2.3 Other Hazards

- CLP**
- According to Regulation (EC) No. 1272/2008 (CLP) this material is considered hazardous.

**DSD/DPD**

- According to European Directive 1999/45/EC this material is considered dangerous.

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**United States (US)**

According to OSHA 29 CFR 1910.1200 HCS

**2.1 Classification of the substance or mixture**

**OSHA HCS 2012**

- Skin Irritation 2 - H315
- Skin Sensitization 1 - H317
- Eye Irritation 2 - H319
- Germ Cell Mutagenicity 2 – H341
- Reproductive Toxicity 1B – H360

**2.2 Label elements**

**OSHA HCS 2012**

**DANGER**



- Hazard statements**
- Causes skin irritation - H315
  - May cause an allergic skin reaction - H317
  - Causes serious eye irritation - H319
  - Suspected of causing genetic defects – H341
  - May damage fertility or the unborn child – H360

**Precautionary statements**

- Prevention**
- Obtain special instructions before use. - P201
  - Do not handle until all safety precautions have been read and understood. - P202
  - Avoid breathing dust. - P261
  - Wash thoroughly after handling. - P264
  - Contaminated work clothing should not be allowed out of the workplace. - P272
  - Wear protective gloves/protective clothing/eye protection/face protection. - P280
- Response**
- If on skin: Wash with plenty of water. – P302+P352
  - Take off contaminated clothing and wash before reuse. - P362
  - If skin irritation or rash occurs: Get medical advice/attention. - P333+P313
  - Specific treatment, see supplemental first aid information. - P321
  - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. - P305+P351+P338
  - If eye irritation persists: Get medical advice/attention. - P337+P313
  - IF exposed or concerned: Get medical advice/attention. - P308+P313

- Storage/Disposal**
- Keep cool. – P235
  - Store locked up. - P405
  - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. - P501

**2.3 Other hazards**

**OSHA HCS 2012**

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

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**Canada**

According to WHMIS

**2.1 Classification of the substance or mixture****WHMIS** • Other Toxic Effects – D2A (Very Toxic), D2B (Toxic)**2.2 Label elements****WHMIS**

- Other Toxic Effects – D2A (Very Toxic), D2B (Toxic)

**2.3 Other hazards**

**WHMIS** • In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS).

## Section 3 - Composition/Information on Ingredients

**3.1 Substances**

- Material does not meet the criteria of a substance in accordance with Regulation (EC) No 1272/2008.

**3.2 Mixtures**

| Composition              |                                                                                        |                  |                                                                        |                                                                                                                                                                                                                                                                                                                              |                           |
|--------------------------|----------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Chemical Name            | Identifiers                                                                            | %                | LD50/LC50                                                              | Classifications According to Regulation/Directive                                                                                                                                                                                                                                                                            | Comments                  |
| Glass, oxide, chemicals  | <b>CAS:</b> 65997-17-3<br><b>EC Number:</b> 266-046-0                                  | 25%<br>TO<br>75% | NDA                                                                    | <b>EU DSD/DPD:</b> Self Classified: Carc. Cat. 3 R40<br><b>EU CLP:</b> Annex VI, Table 3.1: Carc. 2, H351; Skin Irrit. 2, H315<br><b>OSHA HCS 2012:</b> Carc. 2                                                                                                                                                              | NDA                       |
| Epoxy resin ERL-2795     | <b>CAS:</b> 25068-38-6<br><b>EC Number:</b> 500-033-5<br><b>EU Index:</b> 603-074-00-8 | 50%<br>TO<br>75% | Ingestion/Oral-Rat<br>LD50 • 13.6 g/kg<br>Skin-Rabbit LD50 • >20 mL/kg | <b>EU DSD/DPD:</b> Annex VI, Table 3.2: Xi R36/38 R43 N R51-53<br><b>EU CLP:</b> Annex VI, Table 3.1: Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411<br><b>OSHA HCS 2012:</b> Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1                                                                | NDA                       |
| 2-Butanone               | <b>CAS:</b> 78-93-3<br><b>EC Number:</b> 201-159-0<br><b>EU Index:</b> 606-002-00-3    | < 1%             | Ingestion/Oral-Rat<br>LD50 • 2737 mg/kg                                | <b>EU DSD/DPD:</b> Annex VI, Table 3.2: F R11 Xi R36 R66 R67<br><b>EU CLP:</b> Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066<br><b>OSHA HCS 2012:</b> Flam. Liq. 2; STOT SE 3: Narc. & Resp. Irrit.; Skin Irrit. 2; Eye Irrit. 2                                               | NDA                       |
| Formamide, N,N-dimethyl- | <b>CAS:</b> 68-12-2<br><b>EC Number:</b> 200-679-5<br><b>EU Index:</b> 616-001-00-X    | < 0.5%           | Ingestion/Oral-Rat<br>LD50 • 2.8 g/kg<br>Skin-Rabbit LD50 • 1500 mg/kg | <b>EU DSD/DPD:</b> Annex VI, Table 3.2: T, Repr. Cat. 2, R61; Xn, R20/21; Xi, R36<br><b>EU CLP:</b> Annex VI, Table 3.1: Flam. Liq. 3; Acute Tox 4*, H312; Acute Tox. 4*, H332; Eye Irrit. 2, H319; Repr. 1B, H360D***<br><b>OSHA HCS 2012:</b> Flam. Liq. 3; Acute Tox. 4 (skn, orl, inh); Eye Irrit. 2; Repr. 1B; Muta. 2. | SVHC per EC No. 1907/2006 |

See Section 16 for full text of H-statements and R-phrases.

## Section 4 - First Aid Measures

### 4.1 Description of first aid measures

- Inhalation** • Move victim to fresh air. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.
- Skin** • In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Take off contaminated clothing and wash before reuse. If irritation develops and persists, get medical attention.
- Eye** • In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
- Ingestion** • Get medical attention immediately if symptoms occur.

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

- Refer to Section 11 - Toxicological Information.

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

- Notes to Physician** • All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

## Section 5 - Firefighting Measures

### 5.1 Extinguishing media

- Suitable Extinguishing Media** • LARGE FIRE: Water spray, fog or regular foam.  
SMALL FIRES: Dry chemical, CO<sub>2</sub>, water spray or regular foam.
- Unsuitable Extinguishing Media** • No data available.

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

- Unusual Fire and Explosion Hazards** • Hazardous polymerization will occur at elevated temperatures.
- Hazardous Combustion Products** • NO<sub>x</sub>, CO<sub>x</sub>, organic acids, HBr and HCN

### 5.3 Advice for firefighters

- Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.  
Wear positive pressure self-contained breathing apparatus (SCBA).

## Section 6 - Accidental Release Measures

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

- Personal Precautions** • Do not walk through spilled material. Ventilate enclosed areas. Wear appropriate personal protective equipment, avoid direct contact. Avoid contact with skin, eyes, and clothing. Do not breathe dust.
- Emergency Procedures** • ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Ventilate closed spaces before entering.

### 6.2 Environmental precautions

- Avoid release to the environment.

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

- Containment/Clean-up** • Avoid generating dust.  
**Measures** Carefully shovel or sweep up spilled material and place in suitable container.

### 6.4 Reference to other sections

- Refer to Section 8 - Exposure Controls/Personal Protection and Section 13 - Disposal Considerations.

## Section 7 - Handling and Storage

### 7.1 Precautions for safe handling

**Handling** • Avoid contact with heat and ignition sources. Minimize dust generation and accumulation. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe dust. Avoid contact with skin, eyes or clothing. Avoid breathing fumes generated during processing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

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

**Storage** • Keep away from heat, sparks and flame. Store in a well-ventilated place. Keep container tightly closed. Avoid generating dust. Store at 40°F or below.

### 7.3 Specific end use(s)

- Refer to Section 1.2 - Relevant identified uses.

## Section 8 - Exposure Controls/Personal Protection

### 8.1 Control parameters

| Exposure Limits/Guidelines                  |        |                                                                                                                                                                                                                                                                                |                                                                                     |                                              |                                          |                         |
|---------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------|------------------------------------------|-------------------------|
|                                             | Result | ACGIH                                                                                                                                                                                                                                                                          | Australia                                                                           | Brazil                                       | Canada Alberta                           | Canada British Columbia |
| Formamide, N,N-dimethyl- (68-12-2)          | TWAs   | 10 ppm TWA                                                                                                                                                                                                                                                                     | 10 ppm TWA; 30 mg/m <sup>3</sup> TWA                                                | 8 ppm TWA LT; 24 mg/m <sup>3</sup> TWA LT    | 10 ppm TWA; 30 mg/m <sup>3</sup> TWA     | 10 ppm TWA              |
| Glass, oxide, chemicals as Glass wool fiber | TWAs   | 1 fiber/cm <sup>3</sup> TWA (respirable fibers: length >5 µm, aspect ratio ≥3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers)<br><br>as Glass wool fiber | 0.5 fibre/mL TWA (listed under Synthetic mineral fibres)<br><br>as Glass wool fiber | Not established                              |                                          |                         |
| 2-Butanone (78-93-3)                        | STELs  | 300 ppm STEL                                                                                                                                                                                                                                                                   | 300 ppm STEL; 890 mg/m <sup>3</sup> STEL                                            | Not established                              | 300 ppm STEL; 885 mg/m <sup>3</sup> STEL | 100 ppm STEL            |
|                                             | TWAs   | 200 ppm TWA                                                                                                                                                                                                                                                                    | 150 ppm TWA; 445 mg/m <sup>3</sup> TWA                                              | 155 ppm TWA LT; 460 mg/m <sup>3</sup> TWA LT | 200 ppm TWA; 590 mg/m <sup>3</sup> TWA   | 50 ppm TWA              |
| Exposure Limits/Guidelines (Con't.)         |        |                                                                                                                                                                                                                                                                                |                                                                                     |                                              |                                          |                         |
|                                             | Result | Canada Manitoba                                                                                                                                                                                                                                                                | Canada New Brunswick                                                                | Canada Northwest Territories                 | Canada Nova Scotia                       | Canada Nunavut          |
| Formamide, N,N-                             | TWAs   | 10 ppm TWA                                                                                                                                                                                                                                                                     | 10 ppm TWA; 30                                                                      | 10 ppm TWA; 30                               | 10 ppm TWA                               | 10 ppm TWA; 30          |

|                                             |               |                       |                               |                                                                                  |                              |                                                                                                                                                                                                                                                                                         |
|---------------------------------------------|---------------|-----------------------|-------------------------------|----------------------------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| dimethyl-<br>(68-12-2)                      |               |                       | mg/m3 TWA                     | mg/m3 TWA                                                                        |                              | mg/m3 TWA                                                                                                                                                                                                                                                                               |
|                                             | STELs         | Not established       | Not established               | 20 ppm STEL; 60 mg/m3 STEL                                                       | Not established              | 20 ppm STEL; 60 mg/m3 STEL                                                                                                                                                                                                                                                              |
| 2-Butanone<br>(78-93-3)                     | STELs         | 300 ppm STEL          | 300 ppm STEL; 885 mg/m3 STEL  | 300 ppm STEL; 885 mg/m3 STEL                                                     | 300 ppm STEL                 | 300 ppm STEL; 885 mg/m3 STEL                                                                                                                                                                                                                                                            |
|                                             | TWAs          | 200 ppm TWA           | 200 ppm TWA; 590 mg/m3 TWA    | 200 ppm TWA; 590 mg/m3 TWA                                                       | 200 ppm TWA                  | 200 ppm TWA; 590 mg/m3 TWA                                                                                                                                                                                                                                                              |
| <b>Exposure Limits/Guidelines (Con't.)</b>  |               |                       |                               |                                                                                  |                              |                                                                                                                                                                                                                                                                                         |
|                                             | <b>Result</b> | <b>Canada Ontario</b> | <b>Canada Quebec</b>          | <b>Canada Saskatchewan</b>                                                       | <b>Canada Yukon</b>          | <b>China</b>                                                                                                                                                                                                                                                                            |
| Formamide, N,N-dimethyl-<br>(68-12-2)       | STELs         | Not established       | Not established               | 15 ppm STEL                                                                      | 20 ppm STEL; 60 mg/m3 STEL   | 40 mg/m3 STEL                                                                                                                                                                                                                                                                           |
|                                             | TWAs          | 10 ppm TWA            | 10 ppm TWAEV; 30 mg/m3 TWAEV  | 10 ppm TWA                                                                       | 10 ppm TWA; 30 mg/m3 TWA     | 20 mg/m3 TWA                                                                                                                                                                                                                                                                            |
| Glass, oxide, chemicals as Glass wool fiber | TWAs          |                       |                               |                                                                                  |                              | Not established                                                                                                                                                                                                                                                                         |
| 2-Butanone<br>(78-93-3)                     | STELs         | 300 ppm STEL          | 100 ppm STEV; 300 mg/m3 STEV  | 300 ppm STEL                                                                     | 250 ppm STEL; 740 mg/m3 STEL | 600 mg/m3 STEL                                                                                                                                                                                                                                                                          |
|                                             | TWAs          | 200 ppm TWA           | 50 ppm TWAEV; 150 mg/m3 TWAEV | 200 ppm TWA                                                                      | 200 ppm TWA; 590 mg/m3 TWA   | 300 mg/m3 TWA                                                                                                                                                                                                                                                                           |
| <b>Exposure Limits/Guidelines (Con't.)</b>  |               |                       |                               |                                                                                  |                              |                                                                                                                                                                                                                                                                                         |
|                                             | <b>Result</b> | <b>Czech Republic</b> | <b>Denmark</b>                | <b>France</b>                                                                    | <b>Germany DFG</b>           | <b>Germany TRGS</b>                                                                                                                                                                                                                                                                     |
| Formamide, N,N-dimethyl-<br>(68-12-2)       | Ceilings      | 30 mg/m3 Ceiling      | Not established               | Not established                                                                  | 10 ppm Peak; 30 mg/m3 Peak   | Not established                                                                                                                                                                                                                                                                         |
|                                             | TWAs          | 15 mg/m3 TWA          | 5 ppm TWA; 15 mg/m3 TWA       | 5 ppm TWA [VME] (restrictive limit); 15 mg/m3 TWA [VME] (restrictive limit)      | Not established              | 5 ppm TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2); 15 mg/m3 TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2) |
|                                             | STELs         | Not established       | Not established               | 30 mg/m3 STEL [VLCT] (restrictive limit); 10 ppm STEL [VLCT] (restrictive limit) | Not established              | Not established                                                                                                                                                                                                                                                                         |

|                                             |          |                   |                                               |                                                                                    |                                    |                                                                                                                                                                                                                                                                            |
|---------------------------------------------|----------|-------------------|-----------------------------------------------|------------------------------------------------------------------------------------|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             | MAKs     | Not established   | Not established                               | Not established                                                                    | 5 ppm TWA MAK; 15 mg/m3 TWA MAK    | Not established                                                                                                                                                                                                                                                            |
| Glass, oxide, chemicals as Glass wool fiber | TWAs     |                   | 1 fiber/cm3 TWA<br><i>as Glass wool fiber</i> | Not established                                                                    | Not established                    | Not established                                                                                                                                                                                                                                                            |
| 2-Butanone<br>(78-93-3)                     | Ceilings | 900 mg/m3 Ceiling | Not established                               | Not established                                                                    | 200 ppm Peak; 600 mg/m3 Peak       | Not established                                                                                                                                                                                                                                                            |
|                                             | TWAs     | 600 mg/m3 TWA     | 50 ppm TWA; 145 mg/m3 TWA                     | 200 ppm TWA [VME] (restrictive limit); 600 mg/m3 TWA [VME] (restrictive limit)     | Not established                    | 200 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1); 600 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1) |
|                                             | STELs    | Not established   | Not established                               | 300 ppm STEL [VLCT] (restrictive limit); 900 mg/m3 STEL [VLCT] (restrictive limit) | Not established                    | Not established                                                                                                                                                                                                                                                            |
|                                             | MAKs     | Not established   | Not established                               | Not established                                                                    | 200 ppm TWA MAK; 600 mg/m3 TWA MAK | Not established                                                                                                                                                                                                                                                            |

**Exposure Limits/Guidelines (Con't.)**

|                                             | Result | Greece                       | India                        | Israel          | Italy                                                    | Japan                                         |
|---------------------------------------------|--------|------------------------------|------------------------------|-----------------|----------------------------------------------------------|-----------------------------------------------|
| Formamide, N,N-dimethyl-<br>(68-12-2)       | TWAs   | 5 ppm TWA; 15 mg/m3 TWA      | Not established              | 10 ppm TWA      | 5 ppm TWA; 15 mg/m3 TWA                                  | 10 ppm OEL; 30 mg/m3 OEL                      |
|                                             | STELs  | 10 ppm STEL; 30 mg/m3 STEL   | Not established              | Not established | 10 ppm STEL Breve termine; 30 mg/m3 STEL Breve termine   | Not established                               |
| Glass, oxide, chemicals as Glass wool fiber | TWAs   |                              |                              |                 | Not established                                          | 1 fiber/cm3 OEL<br><i>as Glass wool fiber</i> |
| 2-Butanone<br>(78-93-3)                     | TWAs   | 200 ppm TWA; 600 mg/m3 TWA   | 200 ppm TWA; 590 mg/m3 TWA   | 200 ppm TWA     | 200 ppm TWA; 600 mg/m3 TWA                               | 200 ppm OEL; 590 mg/m3 OEL                    |
|                                             | STELs  | 300 ppm STEL; 900 mg/m3 STEL | 300 ppm STEL; 885 mg/m3 STEL | 300 ppm STEL    | 300 ppm STEL Breve termine; 900 mg/m3 STEL Breve termine | Not established                               |

**Exposure Limits/Guidelines (Con't.)**

|  | Result | Korea | Malaysia | Netherlands | NIOSH | OSHA |
|--|--------|-------|----------|-------------|-------|------|
|--|--------|-------|----------|-------------|-------|------|



|                                            |                                       |                                                                |                              |                                                                                                                                               |                                                                                                                          |                            |
|--------------------------------------------|---------------------------------------|----------------------------------------------------------------|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Formamide, N,N-dimethyl- (68-12-2)         | TWAs                                  | 10 ppm TWA (Serial No. 077); 30 mg/m3 TWA (Serial No. 077)     | 10 ppm TWA; 30 mg/m3 TWA     | 15 mg/m3 TWA                                                                                                                                  | 10 ppm TWA; 30 mg/m3 TWA                                                                                                 | 10 ppm TWA; 30 mg/m3 TWA   |
|                                            | STELs                                 | Not established                                                | Not established              | 30 mg/m3 STEL                                                                                                                                 | Not established                                                                                                          | Not established            |
| Glass, oxide, chemicals                    | TWAs                                  | 10 mg/m3 TWA (Serial No. 007)<br><i>as Glass wool fiber</i>    |                              |                                                                                                                                               | 3 fiber/cm3 TWA (fibers <= 3.5 µm in diameter and >= 10 µm in length); 5 mg/m3 TWA (total)<br><i>as Glass wool fiber</i> | Not established            |
| 2-Butanone (78-93-3)                       | TWAs                                  | 200 ppm TWA (Serial No. 228); 590 mg/m3 TWA (Serial No. 228)   | 200 ppm TWA; 590 mg/m3 TWA   | 590 mg/m3 TWA                                                                                                                                 | 200 ppm TWA; 590 mg/m3 TWA                                                                                               | 200 ppm TWA; 590 mg/m3 TWA |
|                                            | STELs                                 | 300 ppm STEL (Serial No. 228); 885 mg/m3 STEL (Serial No. 228) | Not established              | 900 mg/m3 STEL                                                                                                                                | 300 ppm STEL; 885 mg/m3 STEL                                                                                             | Not established            |
| <b>Exposure Limits/Guidelines (Con't.)</b> |                                       |                                                                |                              |                                                                                                                                               |                                                                                                                          |                            |
|                                            | <b>Result</b>                         | <b>Singapore</b>                                               | <b>South Africa</b>          | <b>Spain</b>                                                                                                                                  | <b>United Kingdom</b>                                                                                                    |                            |
| Formamide, N,N-dimethyl- (68-12-2)         | TWAs                                  | 10 ppm PEL; 30 mg/m3 PEL                                       | 10 ppm TWA; 30 mg/m3 TWA     | 5 ppm TWA [VLA-ED] (indicative limit value); 15 mg/m3 TWA [VLA-ED] (indicative limit value)                                                   | Not established                                                                                                          |                            |
|                                            | STELs                                 | Not established                                                | 20 ppm STEL; 60 mg/m3 STEL   | 10 ppm STEL [VLA-EC]; 30 mg/m3 STEL [VLA-EC]                                                                                                  | Not established                                                                                                          |                            |
|                                            | Biological Limit Values (BLV)         | Not established                                                | Not established              | 15 mg/L urine end of shift N-Methylformamide (2); 40 mg/L urine start of last shift of workweek N-Acetyl-S-(N-methylcarbamoyl) cysteine (5,S) | Not established                                                                                                          |                            |
| Glass, oxide, chemicals                    | TWAs                                  |                                                                |                              |                                                                                                                                               | Not established                                                                                                          |                            |
| 2-Butanone (78-93-3)                       | STELs                                 | 300 ppm STEL; 885 mg/m3 STEL                                   | 300 ppm STEL; 885 mg/m3 STEL | 300 ppm STEL [VLA-EC]; 900 mg/m3 STEL [VLA-EC]                                                                                                | Not established                                                                                                          |                            |
|                                            | TWAs                                  | 200 ppm PEL; 590 mg/m3 PEL                                     | 200 ppm TWA; 590 mg/m3 TWA   | 200 ppm TWA [VLA-ED] (indicative limit value); 600 mg/m3 TWA [VLA-ED] (indicative limit value)                                                | Not established                                                                                                          |                            |
|                                            | Biological Monitoring Guidance Values | Not established                                                | Not established              | Not established                                                                                                                               | 70 µmol/L Medium: urine Time: Post shift Parameter: Butan-2-one                                                          |                            |
|                                            | Biological Limit Values (BLV)         | Not established                                                | Not established              | 2 mg/L urine end of shift Methyl ethyl ketone (2)                                                                                             | Not established                                                                                                          |                            |

**Exposure Control Notations****China**•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Skin notation)**Czech Republic**•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Potential for cutaneous absorption)**Denmark**

•Formamide, N,N-dimethyl- (68-12-2): **Skin Notations:** (Potential for cutaneous absorption)

•2-Butanone (78-93-3): **Skin Notations:** (Potential for cutaneous absorption)

#### Greece

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin - potential for cutaneous absorption)

#### Italy

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin - potential for cutaneous absorption)

#### Netherlands

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin notation)

#### Canada Ontario

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Absorption through skin, eyes, or mucous membranes)

#### Canada Quebec

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Skin designation)

#### France

•Formamide, N,N-dimethyl- (68-12-2): **Reproductive Toxins:** (Reproductive Toxin category 1B)

#### Spain

•Formamide, N,N-dimethyl- (68-12-2): **Reproductive Toxins:** (known or suspected human reproductive toxin with classification from animal data) |

**Skin:** (skin - potential for cutaneous exposure)

#### ACGIH

•Formamide, N,N-dimethyl- (68-12-2): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)

#### Germany TRGS

•Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin notation)

•2-Butanone (78-93-3): **Skin:** (skin notation)

#### Germany DFG

•Formamide, N,N-dimethyl- (68-12-2): **Pregnancy:** (risk to embryo/fetus probable) | **Skin:** (skin notation)

•2-Butanone (78-93-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)

## Exposure Limits Supplemental

#### Czech Republic

•Formamide, N,N-dimethyl- (68-12-2): **Substances with Potential Chronic Health Effects:** (Potential chronic health effects)

#### Spain

#### OSHA

N/A

#### ACGIH

•Formamide, N,N-dimethyl- (68-12-2): **BEIs:** (15 mg/L Medium: urine Time: end of shift Parameter: N-Methylformamide; 40 mg/L Medium: urine Time: prior to last shift of workweek Parameter: N-Acetyl-S-(N-methylcarbamoyl) cysteine (semi-quantitative)) | **TLV Basis - Critical Effects:** (liver damage)

•2-Butanone (78-93-3): **BEIs:** (2 mg/L Medium: urine Time: end of shift Parameter: MEK (nonspecific)) | **TLV Basis - Critical Effects:** (CNS and PNS impairment; upper respiratory tract irritation)

#### Germany TRGS

•Formamide, N,N-dimethyl- (68-12-2): **BEIs:** (35 mg/L Medium: urine Time: end of shift Parameter: N,N-Methylformamide plus N-Hydroxymethyl-N-methylformamide)

•2-Butanone (78-93-3): **BEIs:** (5 mg/L Medium: urine Time: end of shift Parameter: 2-Butanone)

## 8.2 Exposure controls

### Engineering

#### Measures/Controls

- Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

### Personal Protective Equipment

#### Respiratory

- Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

#### Eye/Face

- Wear safety glasses.

#### Skin/Body

- Wear appropriate gloves. Wear long sleeves and/or protective coveralls.

#### Environmental

#### Exposure Controls

- Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

## Section 9 - Physical and Chemical Properties

### 9.1 Information on Physical and Chemical Properties

#### Material Description

|                |                      |                        |                                                                         |
|----------------|----------------------|------------------------|-------------------------------------------------------------------------|
| Physical Form  | Solid                | Appearance/Description | Tan or light yellow, tacky, semi-solid sheet with a slight ketone odor. |
| Color          | Tan or light yellow. | Odor                   | Ketone                                                                  |
| Odor Threshold | Data lacking         |                        |                                                                         |

#### General Properties

|                                   |                    |                      |                    |
|-----------------------------------|--------------------|----------------------|--------------------|
| Boiling Point                     | Not relevant       | Melting Point        | Data lacking       |
| Decomposition Temperature         | > 200 C(> 392 F)   | pH                   | Not relevant       |
| Specific Gravity/Relative Density | 1.7 to 1.9 Water=1 | Water Solubility     | Negligible < 0.1 % |
| Viscosity                         | Data lacking       | Explosive Properties | Not Explosive.     |
| Oxidizing Properties:             | Not relevant       |                      |                    |

#### Volatility

|                  |              |               |              |
|------------------|--------------|---------------|--------------|
| Vapor Pressure   | Not relevant | Vapor Density | Not relevant |
| Evaporation Rate | Not relevant | VOC (Wt.)     | < 2 %        |
| Volatiles (Wt.)  | < 2 %        |               |              |

#### Flammability

|                           |              |              |              |
|---------------------------|--------------|--------------|--------------|
| Flash Point               | Not relevant | UEL          | Not relevant |
| LEL                       | Not relevant | Autoignition | Data lacking |
| Flammability (solid, gas) | Data lacking |              |              |

#### Environmental

|                                     |              |  |  |
|-------------------------------------|--------------|--|--|
| Octanol/Water Partition coefficient | Data lacking |  |  |
|-------------------------------------|--------------|--|--|

### 9.2 Other Information

- No additional physical and chemical parameters noted.

## Section 10: Stability and Reactivity

### 10.1 Reactivity

- No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

- Stable under normal temperatures and pressures.

### 10.3 Possibility of hazardous reactions

- Hazardous polymerization will occur at elevated temperatures.

### 10.4 Conditions to avoid

- Avoid exposure to excessive heat and flames, sparks, or other ignition sources.

### 10.5 Incompatible materials

- Strong acids, strong bases, strong oxidizers, amines.

### 10.6 Hazardous decomposition products

- Acid vapors and fumes, aliphatic and aromatic hydrocarbons of variable composition, CO, CO<sub>2</sub>, NO<sub>x</sub>, HCN, SO<sub>x</sub>.

## Section 11 - Toxicological Information

### 11.1 Information on toxicological effects

| Components                           |            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-Butanone (< 1%)                    | 78-93-3    | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2737 mg/kg; Inhalation-Rat LC50 • 23500 mg/m <sup>3</sup> 8 Hour(s); Inhalation-Human TCLo • 1000 mg/m <sup>3</sup> ; <b>Sense Organs and Special Senses:</b> Eye: <b>Conjunctive irritation</b> ; <i>Lungs, Thorax, or Respiration:</i> <b>Cough</b> ; Skin-Rabbit LD50 • 6480 mg/kg; <b>Irritation:</b> Eye-Human • 350 ppm; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; <b>Reproductive:</b> Inhalation-Rat TCLo • 1000 ppm 7 Hour(s)(6-15D preg); <i>Reproductive Effects:</i> Effects on Embryo or Fetus: <b>Fetotoxicity (except death, e.g., stunted fetus)</b> ; <i>Reproductive Effects:</i> Specific Developmental Abnormalities: <b>Musculoskeletal system</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Glass, oxide, chemicals (25% TO 75%) | 65997-17-3 | <b>Multi-dose Toxicity:</b> Inhalation-Rat TCLo • 16 mg/m <sup>3</sup> 6 Hour(s) 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:</i> <b>Other changes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Epoxy resin ERL-2795 (50% TO 75%)    | 25068-38-6 | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 13600 mg/kg; <i>Behavioral:</i> <b>Somnolence (general depressed activity)</b> ; <i>Lungs, Thorax, or Respiration:</i> <b>Dyspnea</b> ; <i>Nutritional and Gross Metabolic:</i> Gross Metabolite Changes: <b>Weight loss or decreased weight gain</b> ; Skin-Rabbit LD50 • >20 mL/kg; <b>Irritation:</b> Eye-Rabbit • 100 mg • Mild irritation; Skin-Rabbit • 2 mg 24 Hour(s) • Severe irritation; <b>Multi-dose Toxicity:</b> Ingestion/Oral-Rat TDLo • 273 g/kg 26 Week(s)-Continuous; <i>Kidney, Ureter, and Bladder:</i> <b>Changes in bladder weight</b> ; <i>Nutritional and Gross Metabolic:</i> Gross Metabolite Changes: <b>Weight loss or decreased weight gain</b> ; <b>Reproductive:</b> Skin-Guinea Pig TDLo • 6111 mg/kg (10-66D preg); <i>Reproductive Effects:</i> Effects on Fertility: <b>Abortion</b> ; <i>Reproductive Effects:</i> Effects on Embryo or Fetus: <b>Extra embryonic structures</b> ; <i>Reproductive Effects:</i> Effects on Embryo or Fetus: <b>Fetal death</b> ; <b>Tumorigen / Carcinogen:</b> Skin-Mouse TDLo • 16480 mg/kg 2 Year(s)-Intermittent; <i>Tumorigenic:</i> <b>Equivocal tumorigenic agent by RTECS criteria</b> ; <i>Lungs, Thorax, or Respiration:</i> <b>Tumors</b> ; <i>Skin and Appendages:</i> <b>Other: Tumors</b> |
| Formamide, N,N-dimethyl-(≤0.5%)      | 68-12-2    | <b>Acute Toxicity:</b> Ingestion/Oral-Rat LD50 • 2800 mg/kg; Inhalation-Rat LC50 • 9-15 mg/l 4 Hour(s); Derma-Rabbit LD50 • 1500 mg/kg; <i>Sense Organs and Special Senses:</i> Eye: <b>Conjunctive irritation</b> ; <i>Lungs, Thorax, or Respiration:</i> ; <b>Irritation:</b> Eye-Rabbit • Moderate irritation; Skin-Human • 24 Hour(s) • Mild irritation; <b>Reproductive:</b> <i>Reproductive Effects:</i> Germ Cell mutagenicity: <b>Getotoxicity in vitro-mouse-lymphocyte</b> ; <b>Mutation in mammalian somatic cells</b> ; <i>Reproductive Effects:</i> Specific Developmental Abnormalities: <b>congenital malformation</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

| GHS Properties            | Classification                                                                                            |
|---------------------------|-----------------------------------------------------------------------------------------------------------|
| Acute toxicity            | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met |
| Aspiration Hazard         | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met |
| Carcinogenicity           | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met |
| Germ Cell Mutagenicity    | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Germ Cell Mutagenicity 2        |
| Skin corrosion/Irritation | <b>EU/CLP</b> •Skin Irritation 2<br><b>OSHA HCS 2012</b> •Skin Irritation 2                               |
| Skin sensitization        | <b>EU/CLP</b> •Skin Sensitizer 1<br><b>OSHA HCS 2012</b> •Skin Sensitizer 1                               |
| STOT-RE                   | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met |
| STOT-SE                   | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met |

|                               |                                                                                                               |
|-------------------------------|---------------------------------------------------------------------------------------------------------------|
| Toxicity for Reproduction     | <b>EU/CLP</b> • Reproductive Toxicity Category 1B<br><b>OSHA HCS 2012</b> • Reproductive Toxicity Category 1B |
| Respiratory sensitization     | <b>EU/CLP</b> • Classification criteria not met<br><b>OSHA HCS 2012</b> • Classification criteria not met     |
| Serious eye damage/Irritation | <b>EU/CLP</b> • Eye Irritation 2<br><b>OSHA HCS 2012</b> • Eye Irritation 2                                   |

## Potential Health Effects

### Inhalation

**Acute (Immediate)** • Processes such as cutting, grinding, crushing, or impact may result in generation of excessive amounts of airborne dusts in the workplace. Nuisance dust may affect the lungs but reactions are typically reversible.

**Chronic (Delayed)** • No data available

### Skin

**Acute (Immediate)** • Causes skin irritation. May cause skin sensitization. Symptoms include redness, and skin rash.

**Chronic (Delayed)** • No data available

### Eye

**Acute (Immediate)** • Causes serious eye irritation.

**Chronic (Delayed)** • No data available

### Ingestion

**Acute (Immediate)** • Excessive concentrations of nuisance dust in the workplace may cause mechanical irritation to mucous membranes.

**Chronic (Delayed)** • No data available

**Carcinogenic Effects** • This product contains fibrous glass. Following a thorough review of all the medical-scientific data available at a meeting in October 2001, the IARC panel lowered the classification for fibrous glass from a Group 2B classification ("possibly carcinogenic to humans") to a Group 3 classification ("not classifiable as to carcinogenicity to humans"). According to IARC, there is "no evidence of increased risks of lung cancer from occupational exposures during manufacturing of these materials, and inadequate evidence overall of any cancer risk."

| Carcinogenic Effects                        |     |            |            |                                               |
|---------------------------------------------|-----|------------|------------|-----------------------------------------------|
|                                             | CAS | OSHA       | IARC       | NTP                                           |
| Glass, oxide, chemicals as Glass wool fiber | NDA | Not Listed | Not Listed | Reasonably Anticipated to be Human Carcinogen |

**Reproductive Effects** • This product contains Dimethylformamide which may cause germ cell mutagenicity and congenital malformation in the fetus.

## Section 12 - Ecological Information

### 12.1 Toxicity

| Component                         | CAS        | Data                                                                                                  | Comments                                                                                |
|-----------------------------------|------------|-------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Epoxy resin ERL-2795 (25% TO 75%) | 25068-38-6 | <b>Crustacea:</b> 48 Hour(s) EC50 Water Flea 1.7 mg/L ;<br><b>Fish:</b> 96 Hour(s) LC50 Fish 1.5 mg/L | Test OECD 202 Daphnia sp. Acute Immobilisation; Test OECD 203 Fish, Acute Toxicity Test |

|                                 |         |                                                                                                                                                                                                                                                                                   |                                                                                       |
|---------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| Formamide, N,N-dimethyl-(≤0.5%) | 68-12-2 | <b>Algae:</b> 96 Hour(s) LC50 Desmodesmus subspicatus >500 mg/l<br><b>Crustacea:</b> 48 Hour(s) EC50 Daphnia magna 9600-15700 mg/l<br><b>Fish:</b> 96 Hour(s) LC50 Oncorhynchus mykiss 9000-13000 mg/l; Lepomis macrochirus 6300-7500 mg/l; Pimephales promelas 10400-10800 mg/l. | TestOECD 202 Daphnia sp. Acute Immobilisation; TestOECD 203 Fish, Acute Toxicity Test |
|---------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|

- Toxic to aquatic life with long lasting effects.

## 12.2 Persistence and degradability

- Material data lacking.

## 12.3 Bioaccumulative potential

- Material data lacking.

## 12.4 Mobility in Soil

- Material data lacking.

## 12.5 Results of PBT and vPvB assessment

- No PBT and vPvB assessment has been conducted.

## 12.6 Other adverse effects

- Based on information from components this material may cause adverse effects on the environment.

# Section 13 - Disposal Considerations

## 13.1 Waste treatment methods

- Product waste** • DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN SDS SECTION 3: Composition Information. For UNUSED & UNCONTAMINATED PRODUCT, the preferred disposal option includes sending to a licensed, permitted waste handler and disposing with incinerator or other thermal destruction device.
- Packaging waste** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# Section 14 - Transport Information

|           | 14.1 UN number | 14.2 UN proper shipping name | 14.3 Transport hazard class(es) | 14.4 Packing group | 14.5 Environmental hazards |
|-----------|----------------|------------------------------|---------------------------------|--------------------|----------------------------|
| DOT       | NA             | Not Regulated                | NA                              | NA                 | NDA                        |
| TDG       | NA             | Not Regulated                | NA                              | NA                 | NDA                        |
| IMO/IMDG  | NA             | Not Regulated                | NA                              | NA                 | NDA                        |
| IATA/ICAO | NA             | Not Regulated                | NA                              | NA                 | NDA                        |

## 14.6 Special precautions for user

- None specified.

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

- Data lacking.

## 14.8 Other information

Park Aerospace Technologies Corp. packaging is non bulk per 49CFR 171.4(c)

Marine pollutants are only regulated for bulk and vessel shipments, per 49CFR171.4 (c) Exceptions. Except when all or part of the transportation is by vessel, the requirements of this subchapter specific to marine pollutants do not apply to non-bulk packagings transported by motor vehicle, rail car or aircraft.

When shipped in bulk refer to 49CFR 171.4

Proper shipping name: Environmentally hazardous substance, solid, n.o.s (Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane)

UN Number: 3077

Hazard Class: 9

Packaging group: III

## Section 15 - Regulatory Information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### SARA Hazard Classifications

- Acute, Chronic

| State Right To Know      |            |     |     |     |
|--------------------------|------------|-----|-----|-----|
| Component                | CAS        | MA  | NJ  | PA  |
| 2-Butanone               | 78-93-3    | Yes | Yes | Yes |
| Epoxy resin ERL-2795     | 25068-38-6 | No  | No  | No  |
| Formamide, N,N-dimethyl- | 68-12-2    | Yes | Yes | Yes |
| Glass, oxide, chemicals  | 65997-17-3 | Yes | No  | Yes |

| Inventory                |            |            |             |       |           |           |
|--------------------------|------------|------------|-------------|-------|-----------|-----------|
| Component                | CAS        | Canada DSL | Canada NDSL | China | EU EINECS | EU ELNICS |
| 2-Butanone               | 78-93-3    | Yes        | No          | Yes   | Yes       | No        |
| Epoxy resin ERL-2795     | 25068-38-6 | Yes        | No          | Yes   | No        | No        |
| Formamide, N,N-dimethyl- | 68-12-2    | Yes        | No          | Yes   | Yes       | No        |
| Glass, oxide, chemicals  | 65997-17-3 | Yes        | No          |       | Yes       | No        |

| Inventory (Con't.)       |            |            |            |      |
|--------------------------|------------|------------|------------|------|
| Component                | CAS        | Japan ENCS | Korea KECL | TSCA |
| 2-Butanone               | 78-93-3    | Yes        | Yes        | Yes  |
| Epoxy resin ERL-2795     | 25068-38-6 | Yes        | Yes        | Yes  |
| Formamide, N,N-dimethyl- | 68-12-2    | Yes        | Yes        | Yes  |
| Glass, oxide, chemicals  | 65997-17-3 |            |            | Yes  |

### Australia

#### Labor

##### Australia - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

**Australia - High Volume Industrial Chemicals List**

|                                                                             |            |                                    |
|-----------------------------------------------------------------------------|------------|------------------------------------|
| •Glass, oxide, chemicals                                                    | 65997-17-3 | Not Listed                         |
| •Glass, oxide, chemicals as Glass wool fiber                                |            | Not Listed                         |
| •Formamide, N,N-dimethyl-                                                   | 68-12-2    | Not Listed                         |
| •2-Butanone                                                                 | 78-93-3    |                                    |
| •Epoxy resin ERL-2795                                                       | 25068-38-6 |                                    |
| <b>Australia - List of Designated Hazardous Substances - Classification</b> |            |                                    |
| •Glass, oxide, chemicals                                                    | 65997-17-3 | Not Listed                         |
| •Glass, oxide, chemicals as Glass wool fiber                                |            | Not Listed                         |
| •Formamide, N,N-dimethyl-                                                   | 68-12-2    | Xn, Xi Repr.Cat.2 R61, R20/21, R36 |
| •2-Butanone                                                                 | 78-93-3    | F, Xi R11, R36, R66, R67           |
| •Epoxy resin ERL-2795                                                       | 25068-38-6 | Xi, N R36/38, R43, R51, R53        |

**Environment****Australia - National Pollutant Inventory (NPI) Substance List**

|                                              |            |                                  |
|----------------------------------------------|------------|----------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed                       |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed                       |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed                       |
| •2-Butanone                                  | 78-93-3    | 10 tonne/yr Threshold category 1 |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed                       |

**Australia - Ozone Protection Act - Scheduled Substances**

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

**Australia - Priority Existing Chemical Program**

|                                              |            |                    |
|----------------------------------------------|------------|--------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed         |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed         |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Candidate chemical |
| •2-Butanone                                  | 78-93-3    | Candidate chemical |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed         |

**Canada****Labor****Canada - WHMIS - Classifications of Substances**

|                                              |            |                                                                                                                                                |
|----------------------------------------------|------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed<br>Uncontrolled product according to WHMIS classification criteria (listed under Glass wool); D2A (listed under Mineral wool fiber) |
| •Glass, oxide, chemicals as Glass wool fiber |            |                                                                                                                                                |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed                                                                                                                                     |
| •2-Butanone                                  | 78-93-3    | B2, D2B                                                                                                                                        |
| •Epoxy resin ERL-2795                        | 25068-38-6 | D2B                                                                                                                                            |

**Canada - WHMIS - Ingredient Disclosure List**

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | 1 %        |
| •2-Butanone                                  | 78-93-3    | 1 %        |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

**Environment****Canada - CEPA - Priority Substances List**

|                                              |            |                                                      |
|----------------------------------------------|------------|------------------------------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed                                           |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed                                           |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Priority Substance List 2 (substance not considered) |

|                       |            |            |
|-----------------------|------------|------------|
| •2-Butanone           | 78-93-3    | toxic)     |
| •Epoxy resin ERL-2795 | 25068-38-6 | Not Listed |
|                       |            | Not Listed |

## Europe

### Other

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

|                                              |            |                                    |
|----------------------------------------------|------------|------------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed                         |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed                         |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Xn; R20/21 Xi; R36 Repr.Cat.2; R61 |
| •2-Butanone                                  | 78-93-3    | F; R11 Xi; R36 R66 R67             |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Xi; R36/38 R43 N; R51-53           |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

|                                              |            |                   |
|----------------------------------------------|------------|-------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed        |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed        |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed        |
| •2-Butanone                                  | 78-93-3    | Not Listed        |
| •Epoxy resin ERL-2795                        | 25068-38-6 | 5%≤C: Xi; R:36/38 |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

|                                              |            |                                         |
|----------------------------------------------|------------|-----------------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed                              |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed                              |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | T R:61-20/21-36 S:53-45                 |
| •2-Butanone                                  | 78-93-3    | F Xi R:11-36-66-67 S:(2)-9-16           |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Xi N R:36/38-43-51/53 S:(2)-28-37/39-61 |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | E          |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

#### EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

|                                              |            |                   |
|----------------------------------------------|------------|-------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed        |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed        |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | S:53-45           |
| •2-Butanone                                  | 78-93-3    | S:(2)-9-16        |
| •Epoxy resin ERL-2795                        | 25068-38-6 | S:(2)-28-37/39-61 |

## Germany

### Environment

#### Germany - TA Luft - Types and Classes

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

#### Germany - TA Luft - Emission Limits for Carcinogenic Substances

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

#### Germany - TA Luft - Emission Limits for Fibers

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |

|                                                                                |            |                                                                                                                                                  |
|--------------------------------------------------------------------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |
| <b>Germany - TA Luft - Emission Limits for Inorganic Dusts</b>                 |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | Not Listed                                                                                                                                       |
| •2-Butanone                                                                    | 78-93-3    | Not Listed                                                                                                                                       |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |
| <b>Germany - TA Luft - Emission Limits for Inorganic Gases</b>                 |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | Not Listed                                                                                                                                       |
| •2-Butanone                                                                    | 78-93-3    | Not Listed                                                                                                                                       |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |
| <b>Germany - TA Luft - Emission Limits for Organic Substances</b>              |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | Not Listed                                                                                                                                       |
| •2-Butanone                                                                    | 78-93-3    | Not Listed                                                                                                                                       |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |
| <b>Germany - Water Classification (VwVwS) - Annex 1</b>                        |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | Not Listed                                                                                                                                       |
| •2-Butanone                                                                    | 78-93-3    | Not Listed                                                                                                                                       |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |
| <b>Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes</b> |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | ID Number 83, hazard class 1 - low hazard to waters                                                                                              |
| •2-Butanone                                                                    | 78-93-3    | ID Number 150, hazard class 1 - low hazard to waters                                                                                             |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | ID Number 2007, hazard class 2 - hazard to waters (molecular weight <700, content of free epichlorohydrin <20 ppm, not classified as R40 or R45) |
| <b>Germany - Water Classification (VwVwS) - Annex 3</b>                        |            |                                                                                                                                                  |
| •Glass, oxide, chemicals                                                       | 65997-17-3 | Not Listed                                                                                                                                       |
| •Glass, oxide, chemicals as Glass wool fiber                                   |            | Not Listed                                                                                                                                       |
| •Formamide, N,N-dimethyl-                                                      | 68-12-2    | Not Listed                                                                                                                                       |
| •2-Butanone                                                                    | 78-93-3    | Not Listed                                                                                                                                       |
| •Epoxy resin ERL-2795                                                          | 25068-38-6 | Not Listed                                                                                                                                       |

## United States

### Labor

#### U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

#### U.S. - OSHA - Specifically Regulated Chemicals

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |

|                                                                                                  |            |                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>Environment</b>                                                                               |            |                                                                                                                                                                                              |
| <b>U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants</b>                                |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed<br>(including mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers [or other mineral derived fibers] of average diameter 1 µm or less) |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            |                                                                                                                                                                                              |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | (listed under Dimethyl formamide)                                                                                                                                                            |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities</b>                 |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | 100 lb final RQ; 45.4 kg final RQ                                                                                                                                                            |
| •2-Butanone                                                                                      | 78-93-3    | 5000 lb final RQ; 2270 kg final RQ                                                                                                                                                           |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities</b>                        |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | Not Listed                                                                                                                                                                                   |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs</b>                 |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | Not Listed                                                                                                                                                                                   |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs</b>                      |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | Not Listed                                                                                                                                                                                   |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Section 313 - Emission Reporting</b>                                     |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | 1.0 % de minimis concentration                                                                                                                                                               |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing</b>                                   |            |                                                                                                                                                                                              |
| •Glass, oxide, chemicals                                                                         | 65997-17-3 | Not Listed                                                                                                                                                                                   |
| •Glass, oxide, chemicals as Glass wool fiber                                                     |            | Not Listed                                                                                                                                                                                   |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | Not Listed                                                                                                                                                                                   |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - EPA - Designated Generic Categories - Pesticides and Other PBTs</b>                    |            |                                                                                                                                                                                              |
| •Formamide, N,N-dimethyl-                                                                        | 68-12-2    | Not Listed                                                                                                                                                                                   |
| •2-Butanone                                                                                      | 78-93-3    | Not Listed                                                                                                                                                                                   |
| •Epoxy resin ERL-2795                                                                            | 25068-38-6 | Not Listed                                                                                                                                                                                   |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - Basis for Listing - Appendix VII</b> |            |                                                                                                                                                                                              |

|                                                                                                                                              |            |                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------|--------------------------------------------------------|
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    | Included in waste streams:<br>F005, F039               |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - Constituents for Detection Monitoring</b>                                        |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    |                                                        |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Toxic Characteristic</b>      |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    | 200.0 mg/L regulatory level                            |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261</b>                         |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    | waste number U159                                      |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - List for Hazardous Constituents</b>                                              |            |                                                        |
| •Glass, oxide, chemicals                                                                                                                     | 65997-17-3 | Not Listed                                             |
| •Glass, oxide, chemicals as Glass wool fiber                                                                                                 |            | Not Listed                                             |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    |                                                        |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards</b>                             |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    | 0.28 mg/L (wastewater); 36<br>mg/kg (nonwastewater)    |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - TSD Facilities Ground Water Monitoring</b>                                       |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    |                                                        |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |
| <b>U.S. - RCRA (Resource Conservation &amp; Recovery Act) - U Series Wastes - Acutely Toxic Wastes &amp; Other Hazardous Characteristics</b> |            |                                                        |
| •Formamide, N,N-dimethyl-                                                                                                                    | 68-12-2    | Not Listed                                             |
| •2-Butanone                                                                                                                                  | 78-93-3    | waste number U159<br>(Ignitable waste, Toxic<br>waste) |
| •Epoxy resin ERL-2795                                                                                                                        | 25068-38-6 | Not Listed                                             |

## United States - California

### Environment

#### U.S. - California - Proposition 65 - Carcinogens List

|                                              |            |                                                                     |
|----------------------------------------------|------------|---------------------------------------------------------------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed                                                          |
| •Glass, oxide, chemicals as Glass wool fiber |            | carcinogen, initial date<br>7/1/90 (inhalable and<br>biopersistent) |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed                                                          |
| •2-Butanone                                  | 78-93-3    | Not Listed                                                          |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed                                                          |

#### U.S. - California - Proposition 65 - Developmental Toxicity

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

#### U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

|                           |            |            |
|---------------------------|------------|------------|
| •Formamide, N,N-dimethyl- | 68-12-2    | Not Listed |
| •2-Butanone               | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795     | 25068-38-6 | Not Listed |

**U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)**

|                           |            |            |
|---------------------------|------------|------------|
| •Formamide, N,N-dimethyl- | 68-12-2    | Not Listed |
| •2-Butanone               | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795     | 25068-38-6 | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Female**

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

**U.S. - California - Proposition 65 - Reproductive Toxicity - Male**

|                                              |            |            |
|----------------------------------------------|------------|------------|
| •Glass, oxide, chemicals                     | 65997-17-3 | Not Listed |
| •Glass, oxide, chemicals as Glass wool fiber |            | Not Listed |
| •Formamide, N,N-dimethyl-                    | 68-12-2    | Not Listed |
| •2-Butanone                                  | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795                        | 25068-38-6 | Not Listed |

**United States - Pennsylvania****Labor****U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List**

|                           |            |            |
|---------------------------|------------|------------|
| •Formamide, N,N-dimethyl- | 68-12-2    | Not Listed |
| •2-Butanone               | 78-93-3    |            |
| •Epoxy resin ERL-2795     | 25068-38-6 | Not Listed |

**U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances**

|                           |            |            |
|---------------------------|------------|------------|
| •Formamide, N,N-dimethyl- | 68-12-2    | Not Listed |
| •2-Butanone               | 78-93-3    | Not Listed |
| •Epoxy resin ERL-2795     | 25068-38-6 | Not Listed |

**15.2 Chemical Safety Assessment**

- No Chemical Safety Assessment has been carried out.

**15.3 Other Information**

- N/A

**Section 16 - Other Information****Relevant Phrases (code & full text)**

- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- R11 - Highly flammable.
- R36/38 - Irritating to eyes and skin.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R51 - Toxic to aquatic organisms.
- R53 - May cause long-term adverse effects in the aquatic environment.
- R61 - May damage the unborn child.

**Last Revision Date** • 17/May/2019 (PAPDC)—Update mixture section, update risk phrases.

**Preparation Date** • 15/August/2014 (PAPDC)

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