

Safety Data Sheet

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

1.1 Product identifier

- Product Name** • **E-761 Epoxy Prepreg/Fiberglass Reinforced**
- Synonyms** • E-761E Epoxy Prepreg/Fiberglass Reinforced; E-761-LT 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 Technologies Corp., a subsidiary of Park Electrochemical 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
Hazardous to the aquatic environment Chronic 2 - H411

DSD/DPD

- Irritant (Xi)
Dangerous to the Environment (N)
R36, R38, R43, R51, R53

2.2 Label Elements

CLP

WARNING



- Hazard statements**
- H315 - Causes skin irritation
 - H317 - May cause an allergic skin reaction
 - H319 - Causes serious eye irritation
 - 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**
- P302+P352 - IF ON SKIN: Wash with plenty of soap and water.
 - P362 - Take off contaminated clothing and wash 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**
- P405 - Store locked up.
 - P501 - Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

DSD/DPD



- Risk phrases**
- R36 - Irritating to eyes.
 - R38 - Irritating to skin.
 - R43 - May cause sensitisation by skin contact.
 - R51 - Toxic to aquatic organisms.
 - R53 - May cause long-term adverse effects in the aquatic environment.

- Safety phrases**
- S24 - Avoid contact with skin.
 - S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - S37 - Wear suitable gloves.
 - S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - S57 - Use appropriate containment to avoid environmental contamination.

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.

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
 - Reproductive Toxicity 2 - H361

2.2 Label elements

OSHA HCS 2012

WARNING



- Hazard statements**
- Causes skin irritation - H315
 - May cause an allergic skin reaction - H317
 - Causes serious eye irritation - H319
 - Suspected of damaging fertility or the unborn child. - H361

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 .
 - 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**
- 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.

Canada

According to WHMIS

2.1 Classification of the substance or mixture

WHMIS • Other Toxic Effects - D2A
Other Toxic Effects - D2B

2.2 Label elements

WHMIS



• Other Toxic Effects - D2A
Other Toxic Effects - D2B

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	CAS: 65997-17-3 EC Number: 266-046-0	40% TO 70%	NDA	EU DSD/DPD: Self Classified: Carc. Cat. 3 R40 EU CLP: Annex VI, Table 3.1: Carc. 2, H351; Skin Irrit. 2, H315 OSHA HCS 2012: Carc. 2	NDA
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane (Epoxy resin ERL-2795)	CAS: 25068-38-6 EC Number: 500-033-5 EU Index: 603-074-00-8	10% TO 30%	Ingestion/Oral-Rat LD50 • 11.4 g/kg Skin-Rabbit LD50 • >20 mL/kg	EU DSD/DPD: Annex VI, Table 3.2: Xi R36/38 R43 N R51-53 EU CLP: Annex VI, Table 3.1: Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411 OSHA HCS 2012: Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1	NDA
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	CAS: 79-94-7 EINECS: 201-236-9	1% TO 6%	NDA	EU DSD/DPD: Annex VI, Table 3.2: N R50-53 EU CLP: Annex VI, Table 3.1: Aquatic Acute 1, H400; Aquatic Chronic 1, H410 OSHA HCS 2012: Eye Irrit. 2	NDA
Urea, 1,1-dimethyl-3-phenyl-	CAS: 101-42-8 EC Number: 202-941-4	0.6% TO 4%	Ingestion/Oral-Mouse LD50 • 4700 mg/kg	EU DSD/DPD: Self Classified: Xi R36 N R51-53 EU CLP: Self Classified: Eye Irrit. 2, H319; Aquatic Chronic 2, H411 OSHA HCS 2012: Comb. Dust; Eye Irrit. 2	NDA
Antimony oxide	CAS: 1309-64-4	0.25% TO 2%	Ingestion/Oral-Rat LD50 • >34600	EU DSD/DPD: Annex VI, Table 3.2: Carc.Cat.3 R40	NDA

	EC Number: 215-175-0 EU Index: 051-005-00-X		mg/kg	EU CLP: Annex VI, Table 3.1: Carc. 2, H351 OSHA HCS 2012: Carc. 2; Eye Irrit. 2B; Repr. 2	
Proprietary	Proprietary	0.25% TO 1.5%	NDA	EU DSD/DPD: Self Classified: Xi R36 R43 EU CLP: Self Classified: Eye Irrit. 2, H319; Skin Sens. 1, H317 OSHA HCS 2012: Eye Irrit. 2; Skin Sens. 1	NDA
Acetone	CAS: 67-64-1 EC Number: 200-662-2 EU Index: 606-001-00-8	< 1%	Ingestion/Oral-Rat LD50 • 5800 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: F R11 Xi; R36 R66 R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012: Flam Liq 2; Eye Irrit. 2A; STOT SE 3: Narc.	NDA
2-Butanone	CAS: 78-93-3 EC Number: 201-159-0 EU Index: 606-002-00-3	< 1%	Ingestion/Oral-Rat LD50 • 2737 mg/kg	EU DSD/DPD: Annex VI, Table 3.2: F R11 Xi R36 R66 R67 EU CLP: Annex VI, Table 3.1: Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3: Narc., H336; EUH066 OSHA HCS 2012: Flam. Liq. 2; STOT SE 3: Narc. & Resp. Irrit.; Skin Irrit. 2; Eye Irrit. 2	NDA
Talc	CAS: 14807-96-6 EC Number: 238-877-9	0.015% TO 0.205%	NDA	EU DSD/DPD: Self Classified: T R48/20 EU CLP: Self Classified: STOT RE 1 (Lungs, Inhl), H372 OSHA HCS 2012: STOT RE 1 (Lungs, Inhl)	NDA
Formamide, N,N-dimethyl-	CAS: 68-12-2 EC Number: 200-679-5 EU Index: 616-001-00-X	< 0.1%	NDA	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limit(s)	NDA
1-Cyclohexene, 4-vinyl-	CAS: 100-40-3 EINECS: 202-848-9	< 0.0015%	NDA	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limit(s)	NDA
Acrylonitrile	CAS: 107-13-1 EC Number: 203-466-5 EU Index: 608-003-00-4	< 0.000015%	NDA	EU CLP: Community workplace exposure limit OSHA HCS 2012: Exposure limit(s)	NDA

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, CO₂, 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_x, CO_x, 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 Measures** • Avoid generating dust.
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
Acrylonitrile (107-13-1)	TWAs	2 ppm TWA	2 ppm TWA; 4.3 mg/m ³ TWA	16 ppm TWA LT; 35 mg/m ³ TWA LT	2 ppm TWA; 4.3 mg/m ³ TWA	2 ppm TWA
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	0.1 ppm TWA	Not established	Not established	0.1 ppm TWA; 0.4 mg/m ³ TWA	0.1 ppm TWA
Talc (14807-96-6)	TWAs	2 mg/m ³ TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	2.5 mg/m ³ TWA (containing no asbestos fibers)	Not established	2 mg/m ³ TWA (respirable particulate)	2 mg/m ³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate)
Antimony oxide as Antimony compounds	TWAs	0.5 mg/m ³ TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m ³ TWA (handling and use, as Sb)	Not established	0.5 mg/m ³ TWA (as Sb) <i>as Antimony compounds</i>	production, exposure by all routes should be carefully controlled to levels as low as possible
Acetone (67-64-1)	STELs	750 ppm STEL	1000 ppm STEL; 2375 mg/m ³ STEL	Not established	750 ppm STEL; 1800 mg/m ³ STEL	500 ppm STEL
	TWAs	500 ppm TWA	500 ppm TWA; 1185 mg/m ³ TWA	780 ppm TWA LT; 1870 mg/m ³ TWA LT	500 ppm TWA; 1200 mg/m ³ TWA	250 ppm TWA
Formamide, N,N-dimethyl- (68-12-2)	TWAs	10 ppm TWA	10 ppm TWA; 30 mg/m ³ TWA	8 ppm TWA LT; 24 mg/m ³ TWA LT	10 ppm TWA; 30 mg/m ³ TWA	10 ppm TWA
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm ³ 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)	0.5 fibre/mL TWA (listed under Synthetic mineral fibres) <i>as Glass wool fiber</i>	Not established		

		as Glass wool fiber				
2-Butanone (78-93-3)	STELs	300 ppm STEL	300 ppm STEL; 890 mg/m3 STEL	Not established	300 ppm STEL; 885 mg/m3 STEL	100 ppm STEL
	TWAs	200 ppm TWA	150 ppm TWA; 445 mg/m3 TWA	155 ppm TWA LT; 460 mg/m3 TWA LT	200 ppm TWA; 590 mg/m3 TWA	50 ppm TWA
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Acrylonitrile (107-13-1)	TWAs	2 ppm TWA	2 ppm TWA; 4.3 mg/m3 TWA	2 ppm TWA; 4.3 mg/m3 TWA	2 ppm TWA	2 ppm TWA; 4.3 mg/m3 TWA
	Designated Substances	Present	Not established	Not established	Not established	Not established
	STELs	Not established	Not established	4 ppm STEL; 8.6 mg/m3 STEL	Not established	4 ppm STEL; 8.6 mg/m3 STEL
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	0.1 ppm TWA	0.1 ppm TWA; 0.44 mg/m3 TWA	Not established	0.1 ppm TWA	Not established
Talc (14807-96-6)	TWAs	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)	2 mg/m3 TWA (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)	3 mg/m3 TWA (respirable mass); 6 mg/m3 TWA (total mass)
Antimony oxide as Antimony compounds	TWAs	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (production, handling and use, as Sb)	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (production, handling and use, as Sb)
	STELs	Not established	Not established	1.5 mg/m3 STEL (production, handling and use, as Sb)	Not established	1.5 mg/m3 STEL (production, handling and use, as Sb)
Acetone (67-64-1)	STELs	750 ppm STEL	750 ppm STEL; 1782 mg/m3 STEL	1250 ppm STEL; 2970 mg/m3 STEL	750 ppm STEL	1250 ppm STEL; 2970 mg/m3 STEL
	TWAs	500 ppm TWA	500 ppm TWA; 1188 mg/m3 TWA	1000 ppm TWA; 2370 mg/m3 TWA	500 ppm TWA	1000 ppm TWA; 2370 mg/m3 TWA
Formamide, N,N-dimethyl- (68-12-2)	TWAs	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA	10 ppm TWA; 30 mg/m3 TWA	10 ppm TWA	10 ppm TWA; 30 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 (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
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Acrylonitrile (107-13-1)	STELs	Not established	Not established	4 ppm STEL	30 ppm STEL; 70 mg/m3 STEL	2 mg/m3 STEL
	TWAs	2 ppm TWA (designated substances regulation); 2 ppm TWA (applies to workplaces to which the designated	2 ppm TWAEV; 4.3 mg/m3 TWAEV	2 ppm TWA	20 ppm TWA; 45 mg/m3 TWA	1 mg/m3 TWA

		substances regulation does not apply)				
	Ceilings	10 ppm Ceiling (designated substances regulation)	Not established	Not established	Not established	Not established
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	0.1 ppm TWA	Not established	0.1 ppm TWA	Not established	Not established
	STELs	Not established	Not established	0.3 ppm STEL	Not established	Not established
Talc (14807-96-6)	STELs	Not established	Not established	Not established	Not established	6 mg/m3 STEL (free SiO2 <10%, total dust); 2 mg/m3 STEL (free SiO2 <10%, respirable dust)
	TWAs	2 mg/m3 TWA (containing no Asbestos and <1% Crystalline silica, respirable)	3 mg/m3 TWAEV (respirable dust)	2 mg/m3 TWA (respirable fraction)	20 mppcf TWA	3 mg/m3 TWA (free SiO2 <10%, total dust); 1 mg/m3 TWA (free SiO2 <10%, respirable dust)
Antimony oxide as Antimony compounds	STELs	Not established	Not established	1.5 mg/m3 STEL (as Sb) <i>as Antimony compounds</i>	0.75 mg/m3 STEL (as Sb) <i>as Antimony compounds</i>	1.5 mg/m3 STEL (as Sb) <i>as Antimony compounds</i>
	TWAs	exposure by all routes should be carefully controlled to levels as low as possible	0.5 mg/m3 TWAEV (as Sb)	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>
Acetone (67-64-1)	STELs	750 ppm STEL	1000 ppm STEV; 2380 mg/m3 STEV	750 ppm STEL	1250 ppm STEL; 3000 mg/m3 STEL	450 mg/m3 STEL
	TWAs	500 ppm TWA	500 ppm TWAEV; 1190 mg/m3 TWAEV	500 ppm TWA	1000 ppm TWA; 2400 mg/m3 TWA	300 mg/m3 TWA
Formamide, N,N-dimethyl- (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 (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
Exposure Limits/Guidelines (Con't.)						
	Result	Czech Republic	Denmark	France	Germany DFG	Germany TRGS
Acrylonitrile (107-13-1)	Ceilings	6 mg/m3 Ceiling	Not established	Not established	Not established	Not established
	TWAs	2 mg/m3 TWA	2 ppm TWA; 4 mg/m3 TWA	2 ppm TWA [VME]; 4.5 mg/m3	Not established	Not established

				TWA [VME]		
	STELs	Not established	Not established	15 ppm STEL [VLCT]; 32.5 mg/m3 STEL [VLCT]	Not established	Not established
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	Not established	0.1 ppm TWA; 0.4 mg/m3 TWA	Not established	Not established	Not established
Phenol, p-(tert-butyl)- (98-54-4)	TWAs	Not established	0.08 ppm TWA; 0.5 mg/m3 TWA	Not established	Not established	0.08 ppm TWA AGW (exposure factor 2); 0.5 mg/m3 TWA AGW (exposure factor 2)
	Ceilings	Not established	Not established	Not established	0.16 ppm Peak; 1.0 mg/m3 Peak	Not established
	MAKs	Not established	Not established	Not established	0.080 ppm TWA MAK; 0.5 mg/m3 TWA MAK	Not established
Talc (14807-96-6)	TWAs	2.0 mg/m3 TWA (as respirable fraction, <=5% silica, cristobalite, tridymite and gamma-aluminium oxide)	0.3 fiber/cm3 TWA (containing fibers)	Not established	Not established	Not established
Antimony oxide as Antimony compounds	Ceilings	0.2 mg/m3 Ceiling (as Sb)	Not established	Not established	Not established	Not established
	TWAs	0.1 mg/m3 TWA (as Sb)	0.5 mg/m3 TWA (except Stibine, as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA [VME] (as Sb) <i>as Antimony compounds</i>	Not established	Not established
Acetone (67-64-1)	Ceilings	1500 mg/m3 Ceiling	Not established	Not established	1000 ppm Peak; 2400 mg/m3 Peak	Not established
	TWAs	800 mg/m3 TWA	250 ppm TWA; 600 mg/m3 TWA	500 ppm TWA [VME] (restrictive limit); 1210 mg/m3 TWA [VME] (restrictive limit)	Not established	500 ppm TWA AGW (exposure factor 2); 1200 mg/m3 TWA AGW (exposure factor 2)
	STELs	Not established	Not established	1000 ppm STEL [VLCT] (restrictive limit); 2420 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established
	MAKs	Not established	Not established	Not established	500 ppm TWA MAK; 1200 mg/m3 TWA MAK	Not established
Formamide, N,N-dimethyl- (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	Not established	5 ppm TWA AGW (The risk of damage to

				TWA [VME] (restrictive limit)		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 <i>as Glass wool fiber</i>	Not established	Not established	Not established
2-Butanone (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	Not established

					MAK	
Exposure Limits/Guidelines (Con't.)						
	Result	Greece	India	Israel	Italy	Japan
Acrylonitrile (107-13-1)	TWAs	2 ppm TWA; 4.5 mg/m3 TWA	2 ppm TWA; 4.5 mg/m3 TWA	2 ppm TWA	Not established	2 ppm OEL; 4.3 mg/m3 OEL
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	Not established	Not established	0.1 ppm TWA	Not established	Not established
Talc (14807-96-6)	TWAs	10 mg/m3 TWA (inhalable fraction); 2 mg/m3 TWA (respirable fraction)	Not established	4 mg/m3 TWA (airborne dust no otherwise classified); 2 mg/m3 TWA (particulate matter containing no asbestos and <1% crystalline silica, respirable fraction)	Not established	0.5 mg/m3 OEL (Class 1 Dust, respirable dust); 2 mg/m3 OEL (Class 1 Dust, total dust)
Antimony oxide as Antimony compounds	TWAs	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	Not established	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	Not established	0.1 mg/m3 OEL (except Stibine, as Sb) <i>as Antimony compounds</i>
Acetone (67-64-1)	TWAs	1780 mg/m3 TWA	750 ppm TWA; 1780 mg/m3 TWA	500 ppm TWA	500 ppm TWA; 1210 mg/m3 TWA	200 ppm OEL; 470 mg/m3 OEL
	STELs	3560 mg/m3 STEL	1000 ppm STEL; 2375 mg/m3 STEL	750 ppm STEL	Not established	Not established
Formamide, N,N-dimethyl- (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 <i>as Glass wool fiber</i>
2-Butanone (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
Acrylonitrile (107-13-1)	TWAs	2 ppm TWA (Serial No. 361); 4.5 mg/m3 TWA (Serial No. 361)	2 ppm TWA; 4.3 mg/m3 TWA	Not established	1 ppm TWA	2 ppm TWA
	Ceilings	Not established	Not established	Not established	10 ppm Ceiling (15 min)	10 ppm Ceiling
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	Not established	0.1 ppm TWA; 0.4 mg/m3 TWA	Not established	Not established	Not established
Talc (14807-96-6)	TWAs	6 mg/m3 TWA (soapstone, Serial No. 312); 3 mg/m3 TWA (soapstone, respirable fraction, Serial No. 313); 2 mg/m3 TWA (as Talc containing no asbestos fibers,	2 mg/m3 TWA (respirable fraction of particulate matter)	0.25 mg/m3 TWA	2 mg/m3 TWA (containing no Asbestos and <1% Quartz, respirable dust)	Not established

		respirable fraction, Serial No. 706)				
Antimony oxide as Antimony compounds	TWAs	0.5 mg/m3 TWA (handling and use, as Sb, Serial No. 289)	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>
Acetone (67-64-1)	TWAs	500 ppm TWA (Serial No. 354); 1188 mg/m3 TWA (Serial No. 354)	500 ppm TWA; 1187 mg/m3 TWA	1210 mg/m3 TWA	250 ppm TWA; 590 mg/m3 TWA	1000 ppm TWA; 2400 mg/m3 TWA
	STELs	750 ppm STEL (Serial No. 354); 1782 mg/m3 STEL (Serial No. 354)	Not established	2420 mg/m3 STEL	Not established	Not established
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) <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) <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

Exposure Limits/Guidelines (Con't.)

	Result	Singapore	South Africa	Spain	United Kingdom
Acrylonitrile (107-13-1)	TWAs	2 ppm PEL; 4.3 mg/m3 PEL	2 ppm TWA; 4 mg/m3 TWA	2 ppm TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH); 4.4 mg/m3 TWA [VLA-ED] (manufacturing, commercialization, and use restrictions under REACH)	Not established
1-Cyclohexene, 4-vinyl- (100-40-3)	TWAs	0.1 ppm PEL; 0.4 mg/m3 PEL	0.1 ppm TWA; 0.4 mg/m3 TWA	0.1 ppm TWA [VLA-ED]; 0.45 mg/m3 TWA [VLA-ED]	Not established
Talc (14807-96-6)	TWAs	2 mg/m3 PEL	10 mg/m3 TWA (containing no Asbestos fibers, total inhalable dust); 1 mg/m3 TWA (containing no Asbestos fibers, respirable dust)	2 mg/m3 TWA [VLA-ED] (this value is for the particulate matter that is free from Asbestos and contains less than 1% of Crystalline silica, respirable fraction)	Not established
Antimony oxide as Antimony compounds	TWAs	0.5 mg/m3 PEL (as Sb)	0.5 mg/m3 TWA (as Sb) <i>as Antimony compounds</i>	0.5 mg/m3 TWA [VLA-ED] (except Antimony hydride, as Sb) <i>as Antimony compounds</i>	Not established

Acetone (67-64-1)	STELs	1000 ppm STEL; 2380 mg/m3 STEL	1500 ppm STEL; 3560 mg/m3 STEL	Not established	Not established
	TWAs	750 ppm PEL; 1780 mg/m3 PEL	750 ppm TWA; 1780 mg/m3 TWA	500 ppm TWA [VLA-ED] (indicative limit value); 1210 mg/m3 TWA [VLA-ED] (indicative limit value)	Not established
	Biological Limit Values (BLV)	Not established	Not established	50 mg/L urine end of shift Acetone (2)	Not established
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)
- Acrylonitrile (107-13-1): **Skin:** (Skin notation)

Czech Republic

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Potential for cutaneous absorption)
- Acrylonitrile (107-13-1): **Sensitizers:** (Sensitizer) | **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)
- Acrylonitrile (107-13-1): **Skin Notations:** (Potential for cutaneous absorption)
- Phenol, p-(tert-butyl)- (98-54-4): **Skin Notations:** (Potential for cutaneous absorption)

Greece

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin - potential for cutaneous absorption)
- Acrylonitrile (107-13-1): **Skin:** (skin - potential for cutaneous absorption)

Italy

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin - potential for cutaneous absorption)
- Antimony oxide (1309-64-4): **Carcinogens:** (Category 3 Carcinogen)

E-761 Epoxy Prepreg/Fiberglass Reinforced

- Acrylonitrile (107-13-1): **Carcinogens:** (Category 2 Carcinogen)

Netherlands

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin notation)
- 2-Butanone (78-93-3): **Skin:** (skin notation)

Canada Ontario

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Absorption through skin, eyes, or mucous membranes)
- Acrylonitrile (107-13-1): **Designated Substances:** (2 ppm TWA; 10 ppm Ceiling) | **Skin:** (Absorption through skin, eyes, or mucous membranes (designated substances regulation))

Canada Quebec

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (Skin designation)
- Antimony oxide (1309-64-4): **Carcinogens:** (C3 carcinogen - effect detected in animals)
- Acrylonitrile (107-13-1): **Carcinogens:** (C2 carcinogen - effect suspected in humans) | **Skin:** (Skin designation)

France

- Formamide, N,N-dimethyl- (68-12-2): **Reproductive Toxins:** (Reproductive Toxin category 1B)
- Antimony oxide as Antimony compounds: **Carcinogens:** (Carcinogen categories 1A, 1B, 2)
- Acrylonitrile (107-13-1): **Carcinogens:** (Carcinogen 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)
- Acrylonitrile (107-13-1): **Carcinogens:** (Suspected human carcinogen) | **Sensitizers:** (sensitizer) | **Skin:** (skin - potential for cutaneous exposure)
- Phenol, p-(tert-butyl)- (98-54-4): **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)
- Antimony oxide (1309-64-4): **Carcinogens:** (A2 - Suspected Human Carcinogen (production))
- Acetone (67-64-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen)
- Acrylonitrile (107-13-1): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)
- Talc (14807-96-6): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen (containing no asbestos fibers))
- 1-Cyclohexene, 4-vinyl- (100-40-3): **Carcinogens:** (A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans)

Germany TRGS

- Formamide, N,N-dimethyl- (68-12-2): **Skin:** (skin notation)
- 2-Butanone (78-93-3): **Skin:** (skin notation)
- Phenol, p-(tert-butyl)- (98-54-4): **Skin:** (skin notation)
- 1-Cyclohexene, 4-vinyl- (100-40-3): **Carcinogens:** (Category 3) | **Developmental Toxins:** (Based on current data, this substance cannot be classified in categories 1-3) | **Reproductive Toxins:** (Category 3) | **Germ Cell Mutagens:** (Based on current data, this substance cannot be classified in categories 1-3)

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)
- Acetone (67-64-1): **Pregnancy:** (risk to embryo/fetus probable by exposure at exposure limit level)
- Acrylonitrile (107-13-1): **Carcinogens:** (Category 2 (considered to be carcinogenic for man)) | **Sensitizers:** (skin sensitizer) | **Skin:** (skin notation)
- Talc (14807-96-6): **Carcinogens:** (Category 3B (could be carcinogenic for man, free of asbestos fibers))
- Phenol, p-(tert-butyl)- (98-54-4): **Pregnancy:** (classification not yet possible) | **Sensitizers:** (skin sensitizer) | **Skin:** (skin notation)
- 1-Cyclohexene, 4-vinyl- (100-40-3): **Carcinogens:** (Category 2 (considered to be carcinogenic for man)) | **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)
- Acrylonitrile (107-13-1): **Substances with Potential Chronic Health Effects:** (Potential chronic health effects)

Spain

- Phenol, p-(tert-butyl)- (98-54-4): **Under Review:** (0.08 ppm VLA-ED; 0.5 mg/m3 VLA-ED; 0.16 ppm VLA-EC; 1 mg/m3 VLA-EC; skin; sen)

OSHA

- Talc (14807-96-6): **Mineral Dusts:** (20 mppcf TWA (if 1% Quartz or more, use Quartz limit))

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)
- Antimony oxide (1309-64-4): **TLV Basis - Critical Effects:** (lung cancer (antimony trioxide production); pneumoconiosis (antimony trioxide production)) | **No Adopted Value:** (Exposure by all routes should be carefully controlled to levels as low as possible (production))



- Antimony oxide as Antimony compounds: **TLV Basis - Critical Effects:** (skin and upper respiratory tract irritation)
- Acetone (67-64-1): **BEIs:** (50 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)) | **TLV Basis - Critical Effects:** (CNS impairment; eye and upper respiratory tract irritation; hematologic effects) | **Notice of Intended Changes (BEIs):** (25 mg/L Medium: urine Time: end of shift Parameter: Acetone (nonspecific)) | **Notice of Intended Changes (TLVs):** (250 ppm TWA; 500 ppm STEL; A4 - not classifiable as a human carcinogen; BEI; TLV basis: CNS impairment, eye and upper respiratory tract irritation)
- Acrylonitrile (107-13-1): **TLV Basis - Critical Effects:** (CNS impairment; lower respiratory tract irritation)
- Talc (14807-96-6): **TLV Basis - Critical Effects:** (pulmonary fibrosis (containing no asbestos fibers); pulmonary function (containing no asbestos fibers))
- 1-Cyclohexene, 4-vinyl- (100-40-3): **TLV Basis - Critical Effects:** (female reproductive damage; male reproductive damage)

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)
- Acetone (67-64-1): **BEIs:** (80 mg/L Medium: urine Time: end of shift Parameter: Acetone)
- Phenol, p-(tert-butyl)- (98-54-4): **BEIs:** (2 mg/L Medium: urine Time: end of shift Parameter: 4-tert-Butylphenol (after hydrolysis))

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:	Data lacking		

Volatility

Vapor Pressure	Not relevant	Vapor Density	Data lacking
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, CO₂, NO_x, HCN, SO_x.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
2-Butanone (< 1%)	78-93-3	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2737 mg/kg; Inhalation-Rat LC50 • 23500 mg/m ³ 8 Hour(s); Inhalation-Human TCLo • 1000 mg/m ³ ; <i>Sense Organs and Special Senses:</i> Eye: Conjunctive irritation ; Lungs, Thorax, or Respiration: Cough ; Skin-Rabbit LD50 • 6480 mg/kg; Irritation: Eye-Human • 350 ppm; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 1000 ppm 7 Hour(s)(6-15D preg); <i>Reproductive Effects:</i> Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus) ; <i>Reproductive Effects:</i> Specific Developmental Abnormalities: Musculoskeletal system
Antimony oxide (0.25% TO 2%)	1309-64-4	Acute Toxicity: Ingestion/Oral-Rat LD50 • >34600 mg/kg; <i>Behavioral:</i> Somnolence (general depressed activity) ; <i>Skin and Appendages:</i> Other: Hair ; Irritation: Eye-Rabbit • 100 mg • Mild irritation; Reproductive: Inhalation-Rat TCLo • 82 µg/m ³ (1-21D preg); <i>Reproductive Effects:</i> Effects on Fertility: Pre-implantation mortality ; <i>Reproductive Effects:</i> Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus) ; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 45 mg/m ³ 52 Week(s)-Intermittent; <i>Tumorigenic:</i> Carcinogenic by RTECS criteria ; Lungs, Thorax, or Respiration: Tumors ; <i>Tumorigenic:</i> Increased incidence of tumors in susceptible strains
Acetone (< 1%)	67-64-1	Acute Toxicity: Ingestion/Oral-Rat LD50 • 5800 mg/kg; <i>Behavioral:</i> Altered sleep time (including change in righting reflex) ; <i>Behavioral:</i> Tremor ; Inhalation-Rat LC50 • 50100 mg/m ³ 8 Hour(s); Irritation: Eye-Rabbit • 20 mg 24 Hour(s) • Moderate irritation; Skin-Rabbit • 500 mg 24 Hour(s) • Mild irritation; Mutagen: Sex chromosome loss & nondisjunction • Inhalation-Mouse • 12 g/L; Reproductive: Ingestion/Oral-Rat TDLo • 273 g/kg (13W male); <i>Reproductive Effects:</i> Paternal Effects: Spermatogenesis ; Inhalation-Rat TCLo • 11000 ppm (6-19D preg); <i>Reproductive Effects:</i> Specific Developmental Abnormalities: Other developmental abnormalities

Glass, oxide, chemicals (40% TO 70%)	65997-17-3	Multi-dose Toxicity: Inhalation-Rat TCLo • 16 mg/m ³ 6 Hour(s) 13 Week(s)-Intermittent; <i>Lungs, Thorax, or Respiration:</i> Other changes
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2-(chloromethyl)oxirane (10% TO 30%)	25068-38-6	Acute Toxicity: Ingestion/Oral-Rat LD50 • 13600 mg/kg; <i>Behavioral:</i> Somnolence (general depressed activity); Lungs, Thorax, or Respiration: Dyspnea; Nutritional and Gross Metabolic: Gross Metabolite Changes: Weight loss or decreased weight gain; Skin-Rabbit LD50 • >20 mL/kg; Irritation: Eye-Rabbit • 100 mg • Mild irritation; Skin-Rabbit • 2 mg 24 Hour(s) • Severe irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 273 g/kg 26 Week(s)-Continuous; <i>Kidney, Ureter, and Bladder:</i> Changes in bladder weight; Nutritional and Gross Metabolic: Gross Metabolite Changes: Weight loss or decreased weight gain; Reproductive: Skin-Guinea Pig TDLo • 6111 mg/kg (10-66D preg); <i>Reproductive Effects:</i> Effects on Fertility: Abortion; Reproductive Effects: Effects on Embryo or Fetus: Extra embryonic structures; Reproductive Effects: Effects on Embryo or Fetus: Fetal death; Tumorigen / Carcinogen: Skin-Mouse TDLo • 16480 mg/kg 2 Year(s)-Intermittent; <i>Tumorigenic:</i> Equivocal tumorigenic agent by RTECS criteria; Lungs, Thorax, or Respiration: Tumors; Skin and Appendages: Other: Tumors
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo- (1% TO 6%))	79-94-7	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5 g/kg; Skin-Rabbit LD50 • >2 g/kg; Irritation: Eye-Rabbit • 100 mg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 3600 mg/kg 18 Day(s)-Intermittent; <i>Kidney, Ureter, and Bladder:</i> Changes in both tubules and glomeruli; Reproductive: Ingestion/Oral-Rat TDLo • 250 mg/kg (6-15D preg); <i>Reproductive Effects:</i> Effects on Fertility: Post-implantation mortality; Reproductive Effects: Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects: Specific Developmental Abnormalities: Musculoskeletal system
Urea, 1,1-dimethyl-3-phenyl- (0.6% TO 4%)	101-42-8	Acute Toxicity: Ingestion/Oral-Rat LD50 • 6400 mg/kg; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 13886 mg/kg 61 Week(s)-Continuous; <i>Blood:</i> Metheinglobincinia-Carboxyhemoglobin; Blood: Other changes; Mutagen: DNA Inhibition • Ingestion/Oral-Mouse • 500 mg/kg
Talc (0.015% TO 0.205%)	14807-96-6	Irritation: Skin-Human • 300 µg 3 Day(s)-Intermittent • Mild irritation; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 18 mg/m ³ 6 Hour(s) 2 Year(s)-Intermittent; <i>Tumorigenic:</i> Carcinogenic by RTECS criteria; Lungs, Thorax, or Respiration: Bronchiogenic carcinoma; Endocrine: Tumors

GHS Properties	Classification
Acute toxicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Aspiration Hazard	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Carcinogenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Germ Cell Mutagenicity	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Skin corrosion/Irritation	EU/CLP•Skin Irritation 2 OSHA HCS 2012•Skin Irritation 2
Skin sensitization	EU/CLP•Skin Sensitizer 1 OSHA HCS 2012•Skin Sensitizer 1
STOT-RE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
STOT-SE	EU/CLP•Data lacking OSHA HCS 2012•Data lacking
Toxicity for Reproduction	EU/CLP•Data lacking OSHA HCS 2012•Toxic to Reproduction 2
Respiratory sensitization	EU/CLP•Data lacking

	OSHA HCS 2012 •Data lacking
Serious eye damage/Irritation	EU/CLP •Eye Irritation 2 OSHA HCS 2012 •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
Acrylonitrile	107-13-1	Specifically Regulated Carcinogen	Group 2B-Possible Carcinogen	Reasonably Anticipated to be Human Carcinogen
1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed	Group 2B-Possible Carcinogen	Not Listed
Antimony oxide	1309-64-4	Not Listed	Group 2B-Possible Carcinogen	Not Listed
Glass, oxide, chemicals as Glass wool fiber	NDA	Not Listed	Not Listed	Reasonably Anticipated to be Human Carcinogen

Reproductive Effects • Animal tests for components have shown adverse reproductive effects.

Section 12 - Ecological Information

12.1 Toxicity

Component	CAS	Data	Comments
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo- (1% TO 6%))	79-94-7	Crustacea: 96 Hour(s) EC50 Crustacea 98 µg/L ; 48 Hour(s) LC50 Water Flea 1.8 mg/L ; Fish: 96 Hour(s) LC50 Fish .54 mg/L	
Urea, 1,1-dimethyl-3-phenyl- (0.6% TO 4%)	101-42-8	Aquatic Plant(s): 24 Hour(s) EC50 Algae 1.2 mg/L ;	

- 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

E-761 Epoxy Prepreg/Fiberglass Reinforced

Proper shipping name: Environmentally hazardous substance, solid, n.o.s (2,2',6,6'-Tetrabromo-4,4'-isopropylidenediphenol; 4,4'-(1-Methylethylidene) bisphenol polymer with (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
1-Cyclohexene, 4-vinyl-	100-40-3	Yes	Yes	Yes
2-Butanone	78-93-3	Yes	Yes	Yes
Acetone	67-64-1	Yes	Yes	Yes
Acrylonitrile	107-13-1	Yes	Yes	Yes
Antimony oxide	1309-64-4	Yes	Yes	Yes
Proprietary	Proprietary	No	No	No
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
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	No	Yes	No
Phenol, p-(tert-butyl)-	98-54-4	No	No	No
Talc	14807-96-6	Yes	Yes	Yes
Urea, 1,1-dimethyl-3-phenyl-	101-42-8	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
1-Cyclohexene, 4-vinyl-	100-40-3	Yes	No	Yes	Yes	No
2-Butanone	78-93-3	Yes	No	Yes	Yes	No
Acetone	67-64-1	Yes	No	Yes	Yes	No
Acrylonitrile	107-13-1	Yes	No	Yes	Yes	No
Antimony oxide	1309-64-4	Yes	No	Yes	Yes	No
Proprietary	Proprietary	Yes	No	Yes	No	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
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Yes	No	Yes	Yes	No
Phenol, p-(tert-butyl)-	98-54-4	Yes	No	Yes	Yes	No

E-761 Epoxy Prepreg/Fiberglass Reinforced

Talc	14807-96-6	Yes	No	Yes	Yes	No
Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Yes	No	Yes	Yes	No
Inventory (Con't.)						
Component	CAS	Japan ENCS	Korea KECL	TSCA		
1-Cyclohexene, 4-vinyl-	100-40-3	Yes	Yes	Yes		
2-Butanone	78-93-3	Yes	Yes	Yes		
Acetone	67-64-1	Yes	Yes	Yes		
Acrylonitrile	107-13-1	Yes	Yes	Yes		
Antimony oxide	1309-64-4	Yes	Yes	Yes		
Proprietary	Proprietary	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		
Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Yes	Yes	Yes		
Phenol, p-(tert-butyl)-	98-54-4	Yes	Yes	Yes		
Talc	14807-96-6	Yes	Yes	Yes		
Urea, 1,1-dimethyl-3-phenyl-	101-42-8	No	Yes	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
		Demographic, medical and occupational history; Records of personal exposure; Physical examination
•Acrylonitrile	107-13-1	
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	
•Talc	14807-96-6	
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Australia - List of Designated Hazardous Substances - 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, Xi Repr.Cat.2 R61, R20/21, R36
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
		F, T, Xi, N Carc.Cat.2 R11, R45, R23/24/25, R37/38, R41, R43, R51, R53
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	F, Xi R11, R36, R66, R67
		Self classification required (containing no asbestos fibres)
•Talc	14807-96-6	Carc.Cat.3 R40 (handling and use production)
	1309-64-4	F, Xi R11, R36, R66, R67
•Antimony oxide	78-93-3	N R50, R53
•2-Butanone	79-94-7	Xi, N R36/38, R43, R51, R53
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	25068-38-6	Not Listed
•Epoxy resin ERL-2795	101-42-8	
•Urea, 1,1-dimethyl-3-phenyl-		

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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
		10 tonne/yr Threshold category 1
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
		10 tonne/yr Threshold category 1
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
		10 tonne/yr Threshold category 1
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Preliminary assessment - report published February 2000
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Candidate chemical
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Currently being assessed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

•Glass, oxide, chemicals	65997-17-3	Not Listed 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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	B2, D1A, D2A, D2B, F
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	B2, D2B
•Talc	14807-96-6	D2A
•Antimony oxide	1309-64-4	D2A
•2-Butanone	78-93-3	B2, D2B
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	D2B
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

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 %
•Phenol, p-(tert-butyl)-	98-54-4	1 %
•Acrylonitrile	107-13-1	0.1 %
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	1 %
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	1 %
•2-Butanone	78-93-3	1 %
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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 toxic)
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Priority Substance List 2

(substance considered toxic)

- Proprietary
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

Proprietary	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed

Europe

Other

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

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-

65997-17-3	Not Listed
	Not Listed
68-12-2	Xn; R20/21 Xi; R36
	Repr.Cat.2; R61
98-54-4	Repr.Cat.3; R62 Xi; R38-41
	F; R11 T; R23/24/25 Xi;
107-13-1	R37/38-41 R43 Carc.Cat.2;
	R45 N; R51-53

- Proprietary
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

Proprietary	Not Listed
100-40-3	Carc.Cat.3; R40
67-64-1	F; R11 Xi; R36 R66 R67
14807-96-6	Not Listed
1309-64-4	Carc.Cat.3; R40
78-93-3	F; R11 Xi; R36 R66 R67
79-94-7	N; R50-53
25068-38-6	Xi; R36/38 R43 N; R51-53
101-42-8	Not Listed

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

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-

65997-17-3	Not Listed
	Not Listed
68-12-2	Not Listed
98-54-4	Not Listed
	1%≤C: T; R:23/24/25
107-13-1	0.2%≤C<1%: Xn;
	R:20/21/22

- Proprietary
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

Proprietary	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	5%≤C: Xi; R:36/38
101-42-8	Not Listed

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

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-

65997-17-3	Not Listed
	Not Listed
68-12-2	T R:61-20/21-36 S:53-45
98-54-4	Xn R:38-41-62 S:(2)-26-
	36/37/39-46

- Acrylonitrile

107-13-1	F T N R:45-11-23/24/25-
	37/38-41-43-51/53 S:53-45-
	61

- Proprietary
- 1-Cyclohexene, 4-vinyl-
- Acetone

Proprietary	Not Listed
100-40-3	Xn R:40 S:(2)-36/37
67-64-1	F Xi R:11-36-66-67 S:(2)-9-



•Talc	14807-96-6	16-26
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Xn R:40 S:(2)-22-36/37
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	F Xi R:11-36-66-67 S:(2)-9-16
•Epoxy resin ERL-2795	25068-38-6	N R:50/53 S:60-61
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	D, E
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	S:(2)-26-36/37/39-46
•Acrylonitrile	107-13-1	S:53-45-61
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	S:(2)-36/37
•Acetone	67-64-1	S:(2)-9-16-26
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	S:(2)-22-36/37
•2-Butanone	78-93-3	S:(2)-9-16
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	S:60-61
•Epoxy resin ERL-2795	25068-38-6	S:(2)-28-37/39-61
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

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
•Phenol, p-(tert-butyl)-	98-54-4	organic Substance: 5.2.5, Class I
•Acrylonitrile	107-13-1	carcinogenic Substance: 5.2.7.1.1, Class II
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

E-761 Epoxy Prepreg/Fiberglass Reinforced

•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
		1.5 g/h Mass flow (Class II);
•Acrylonitrile	107-13-1	0.5 mg/m3 Mass concentration (Class II)
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts		
•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Germany - TA Luft - Emission Limits for Organic 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
		0.10 kg/h Mass flow (Class I); 20 mg/m3 Mass concentration (Class I)
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Germany - Water Classification (VwVwS) - Annex 1		
•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
		ID Number 1315, not considered hazardous to water
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard 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	ID Number 83, hazard class 1 - low hazard to waters
		ID Number 1187, hazard class 2 - hazard to waters
•Phenol, p-(tert-butyl)-	98-54-4	ID Number 10, hazard class 3 - severe hazard to waters
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	ID Number 6, hazard class 1 - low hazard to waters
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	ID Number 979, hazard class 2 - hazard to waters
		ID Number 150, hazard class 1 - low hazard to waters
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	ID Number 2007, hazard class 2 - hazard to waters (molecular weight <700, content of free epichlorohydrin <20 ppm,
•Epoxy resin ERL-2795	25068-38-6	

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	not classified as R40 or R45)
Germany - Water Classification (VwVwS) - Annex 3		Not Listed
•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	ID Number 2425, hazard class 2 - hazard to waters
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	ID Number 979, hazard class 2 - hazard to waters
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	ID Number 4956, hazard class 2 - hazard to waters
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	10 ppm Excursion Limit (See 29 CFR 1910.1045, 15 min); 1 ppm Action Level; 2 ppm TWA
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		(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)

(listed under Dimethyl formamide)

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

100 lb final RQ; 45.4 kg final RQ

Not Listed

100 lb final RQ; 45.4 kg final RQ

Not Listed

Not Listed

5000 lb final RQ; 2270 kg final RQ

Not Listed

1000 lb final RQ; 454 kg final RQ

5000 lb final RQ; 2270 kg final RQ

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

100 lb EPCRA RQ

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

Not Listed

E-761 Epoxy Prepreg/Fiberglass Reinforced

- *Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-
- U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs**

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-
- Acrylonitrile

- *Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-
- U.S. - CERCLA/SARA - Section 313 - Emission Reporting**

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-

- Phenol, p-(tert-butyl)-

- Acrylonitrile

- *Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone

- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-

- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-

- Phenol, p-(tert-butyl)-

- Acrylonitrile

- *Proprietary*
- 1-Cyclohexene, 4-vinyl-

- Acetone

- Talc

- Antimony oxide

- 2-Butanone

- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-

- Epoxy resin ERL-2795

- Urea, 1,1-dimethyl-3-phenyl-

U.S. - EPA - Designated Generic Categories - Pesticides and Other PBTs

- Formamide, N,N-dimethyl-

- Phenol, p-(tert-butyl)-

<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed

65997-17-3	Not Listed
	Not Listed
68-12-2	Not Listed
98-54-4	Not Listed
107-13-1	10000 lb TPQ
<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed

65997-17-3	Not Listed
	Not Listed
68-12-2	1.0 % de minimis concentration
98-54-4	Not Listed
107-13-1	0.1 % de minimis concentration
<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	1.0 % Supplier notification limit
25068-38-6	Not Listed
101-42-8	Not Listed

65997-17-3	Not Listed
	Not Listed
68-12-2	Not Listed
98-54-4	Not Listed
107-13-1	Not Listed
<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	100 lb RT
25068-38-6	Not Listed
101-42-8	Not Listed

68-12-2	Not Listed
98-54-4	Not Listed



E-761 Epoxy Prepreg/Fiberglass Reinforced

•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	100 lb Reporting Threshold
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Included in waste streams: F039, K011, K013
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Included in waste stream: F039
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Included in waste streams: F005, F039
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	200.0 mg/L regulatory level
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	waste number U009
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	waste number U159
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents		
•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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	0.24 mg/L (wastewater); 84 mg/kg (nonwastewater)
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	0.28 mg/L (wastewater); 160 mg/kg (nonwastewater)
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	0.28 mg/L (wastewater); 36 mg/kg (nonwastewater)
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	waste number U009
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	waste number U002 (Ignitable waste)
•Talc	14807-96-6	Not Listed

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	waste number U159 (Ignitable waste, Toxic waste)
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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 7/1/90 (inhalable and biopersistent)
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	carcinogen, initial date 7/1/87
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	carcinogen, initial date 5/1/96
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	carcinogen, initial date 10/1/90
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	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
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

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

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	Not Listed
•Proprietary	Proprietary	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

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

•Formamide, N,N-dimethyl-	68-12-2	Not Listed
---------------------------	---------	------------

E-761 Epoxy Prepreg/Fiberglass Reinforced

- Phenol, p-(tert-butyl)-
- Acrylonitrile
- Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

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

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-
- Acrylonitrile
- Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

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

- Glass, oxide, chemicals
- Glass, oxide, chemicals as Glass wool fiber
- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-
- Acrylonitrile
- Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795
- Urea, 1,1-dimethyl-3-phenyl-

98-54-4	Not Listed
107-13-1	0.7 µg/day NSRL
<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed
65997-17-3	Not Listed
	Not Listed
68-12-2	Not Listed
98-54-4	Not Listed
107-13-1	Not Listed
<i>Proprietary</i>	Not Listed
100-40-3	female reproductive toxicity, initial date 8/7/09
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed
65997-17-3	Not Listed
	Not Listed
68-12-2	Not Listed
98-54-4	Not Listed
107-13-1	Not Listed
<i>Proprietary</i>	Not Listed
100-40-3	male reproductive toxicity, initial date 8/7/09
67-64-1	Not Listed
14807-96-6	Not Listed
1309-64-4	Not Listed
78-93-3	Not Listed
79-94-7	Not Listed
25068-38-6	Not Listed
101-42-8	Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Formamide, N,N-dimethyl-
- Phenol, p-(tert-butyl)-
- Acrylonitrile
- Proprietary*
- 1-Cyclohexene, 4-vinyl-
- Acetone
- Talc
- Antimony oxide
- 2-Butanone
- Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-
- Epoxy resin ERL-2795

68-12-2	Not Listed
98-54-4	Not Listed
107-13-1	
<i>Proprietary</i>	Not Listed
100-40-3	Not Listed
67-64-1	
14807-96-6	Not Listed
1309-64-4	(listed under Antimony oxide)
78-93-3	
79-94-7	Not Listed
25068-38-6	Not Listed

E-761 Epoxy Prepreg/Fiberglass Reinforced

•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed
U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•Phenol, p-(tert-butyl)-	98-54-4	Not Listed
•Acrylonitrile	107-13-1	
• <i>Proprietary</i>	<i>Proprietary</i>	Not Listed
•1-Cyclohexene, 4-vinyl-	100-40-3	Not Listed
•Acetone	67-64-1	Not Listed
•Talc	14807-96-6	Not Listed
•Antimony oxide	1309-64-4	Not Listed
•2-Butanone	78-93-3	Not Listed
•Phenol, 4,4'-(1-methylethylidene)bis(2,6-dibromo-	79-94-7	Not Listed
•Epoxy resin ERL-2795	25068-38-6	Not Listed
•Urea, 1,1-dimethyl-3-phenyl-	101-42-8	Not Listed

15.2 Chemical Safety Assessment

- No Chemical Safety Assessment has been carried out.

15.3 Other Information

- **WARNING:** This product contains a chemical known to the State of California to cause cancer, birth defects, or other reproductive harm.

Section 16 - Other Information

Relevant Phrases (code & full text)

- H225 - Highly flammable liquid and vapour
- H336 - May cause drowsiness or dizziness
- H351 - Suspected of causing cancer.
- H372 - Causes damage to organs through prolonged or repeated exposure.
- H400 - Very toxic to aquatic life
- H410 - Very toxic to aquatic life with long lasting effects
- EUH066 - Repeated exposure may cause skin dryness or cracking.
- R11 - Highly flammable.
- R36/38 - Irritating to eyes and skin.
- R40 - Limited evidence of a carcinogenic effect.
- R48/20 - Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- R50 - Very toxic to aquatic organisms.
- R66 - Repeated exposure may cause skin dryness or cracking.
- R67 - Vapours may cause drowsiness and dizziness.

Last Revision Date

- 7/May/2015 (PAPDC)—Update shipping section per PATC.

Preparation Date

- 29/May/2014

Disclaimer/Statement of Liability

- The information and recommendations contained in this Safety Data Sheet (SDS) are supplied pursuant to the Occupational Safety and Health Administration's Hazard Communication Standard as promulgated under 29 CFR 1910.1200 and the United States Environmental Protection Agency's Supplier Notification Rule as promulgated under 40 CFR 372.45. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in the proper procedures of safe chemical handling. The information contained herein is provided in good faith with no representation as to its comprehensiveness or accuracy. No representations or warranties, either express or implied, of merchantability, or fitness for a particular purpose or of any nature are made with respect to the material described in this Safety Data Sheet. Chemical additions or processing or otherwise altering this material may make the safety information presented in this Safety Data Sheet incomplete, inaccurate or otherwise inappropriate. The

information listed above does not include all state, federal, and international regulations. The regulatory information supplied may change from time to time. It is the user's responsibility to keep advised of all applicable regulatory requirements.

