



Safety Data Sheet

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

1.1 Product identifier

Product Name • **Meteorwave® Unclad Laminate**

Synonyms • Meteorwave® 1000 Laminate, Meteorwave® 2000 Laminate, Meteorwave® 3000 Laminate, Meteorwave® 3350 Laminate, Meteorwave® 4000 Laminate, Meteorwave® 7000 Laminate, Meteorwave® 8000 Laminate, Meteorwave® 8300 Laminate, Meteorwave® 8350 Laminate. Meteorwave® 5000 HF Laminate, Meteorwave® 6000 HF Laminate

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

Relevant identified use(s) • Laminate for consumer and industrial electronics.

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

	<u>North America</u>	<u>Asia</u>	<u>Europe</u>
Manufacturer	AGC Multi Material America, Inc.	AGC Multi Material Singapore PTE, Ltd	AGC Multi Material Europe S.A.
	1420 W. 12 th Place Tempe, AZ 85281 United States	4 Gul Crescent Jurong, Singapore 629520	Route des Usines, BP25 65303, Lannemezan, Cedex, France
	www.agc-multimaterial.com agc-ml.digital-po@agc.com		

1.4 Emergency telephone number

1-480-967-5600- (8AM - 5PM CST) M-F	+65 6861 7117 - Asia	+33-5-62-98-52-90- Europe (8AM-4PM M-F)
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 • Not Classified
DSD/DPD • Not Classified

2.2 Label Elements

- CLP
Hazard statements • No label element(s) required.
DSD/DPD
Risk phrases • No label element(s) required.

2.3 Other Hazards

- CLP • This material is exempt from CLP/REACH obligations as an article as specified in REACH (1907/2006) and related ECHA guidance.
DSD/DPD • Under European Directive 1999/45/EC these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.
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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 • Not Classified

2.2 Label elements

- OSHA HCS 2012
Hazard statements • No label element(s) required.

2.3 Other hazards

- OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), these product(s) are exempt and considered manufactured article(s) under stated normal use conditions.
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Canada

According to: WHMIS

2.1 Classification of the substance or mixture

- WHMIS • Not classified

2.2 Label elements

- WHMIS • No label element(s) required

2.3 Other hazards

- WHMIS • Under Canadian regulations (Workplace Hazardous Materials Information System (WHMIS) – Hazardous Products Act (HPA), Section 11 (1)), these product(s) are exempt and considered manufactured article(s) under stated normal conditions of use.
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Section 3 - Composition/Information on Ingredients

3.1 Substances

- Material does not meet the criteria of a substance.

3.2 Mixtures

Composition		
Chemical Name	Identifiers	%
2-Butanone	CAS:78-93-3 EC Number:201-159-0 EU Index:606-002-00-3	<0.1%
Cyclohexanone	CAS:108-94-1 EC Number:203-631-1 EU Index:606-010-00-7	<0.1%
Silica, amorphous	CAS:7631-86-9 EC Number:231-545-4	7% TO 15%
Cured resin mixture	CAS:NA EC Number:NA	20% TO 50%
Glass, oxide, chemicals	CAS:65997-17-3 EC Number:266-046-0	30% TO 65%

Section 4 - First Aid Measures

4.1 Description of first aid measures

- Inhalation** • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, move victim to fresh air. Administer oxygen if breathing is difficult. If signs/symptoms continue, get medical attention. Give artificial respiration if victim is not breathing.
- Skin** • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. In case of contact with substance, flush skin with running water for at least 20 minutes. Remove and isolate contaminated clothing. Wash skin with soap and water. If irritation develops and persists, get medical attention.
- Eye** • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. 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** • First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Obtain medical attention immediately if ingested.

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 FIRES: Water spray, fog or alcohol-resistant foam.
- SMALL FIRES: Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media

- Do not use straight streams.

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards

- Hazardous decomposition will occur at elevated temperatures

Hazardous Combustion Products

- Nitrous Oxides, Aldehydes, Carbon Monoxide, HBr, Various Acids.

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

- No special precautions are expected to be necessary if material is used under ordinary conditions and as recommended. Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

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 77°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
Silica, amorphous (7631-86-9)	TWAs	Not established	2 mg/m3 TWA (respirable dust, listed under Fumed silica)	Not established	Not established	Not established
Cyclohexanone (108-94-1)	TWAs	20 ppm TWA	100 mg/m3 TWA		80 mg/m3; 20 ppm	20 ppm TWA
	STELs	50 ppm STEL	Not established		200 mg/m3; 50 ppm	50 ppm STEL
	Biological Limit Values (BLV)	8 mg/L urine end of shift cyclohexanol; 80 mg/L urine end of last shift of workweek 1,2 cyclohexanediol	Not established		Not established	Not established
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
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm3 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) <i>as Glass wool fiber</i>	0.5 fibre/mL TWA (listed under Synthetic mineral fibres) <i>as Glass wool fiber</i>	Not established	1 fiber/cm3 TWA <i>as Glass wool fiber</i>	1 fiber/cm3 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) <i>as Glass wool fiber</i>
Exposure Limits/Guidelines (Con't.)						
	Result	Canada Manitoba	Canada New Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	2 mg/m3 TWA (respirable mass); 5 mg/m3 TWA (total mass); 0.05 mg/m3 TWA (regulated under Silica flour, respirable mass); 0.15 mg/m3 TWA (total mass,	Not established	2 mg/m3 TWA (respirable mass); 5 mg/m3 TWA (total mass); 0.05 mg/m3 TWA (regulated under Silica flour, respirable mass); 0.15 mg/m3 TWA (regulated under

				regulated under Silica flour)		Silica flour, total mass)
Cyclohexanone (108-94-1)	TWAs					
	STELs					
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
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm3 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) <i>as Glass wool fiber</i>	1 fiber/cm3 TWA (fibers >5 µm with a diameter of <3 µm, aspect ratio >5:1) <i>as Glass wool fiber</i>	3 fiber/cm3 TWA (with a diameter of <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) <i>as Glass wool fiber</i>	1 fiber/cm3 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) <i>as Glass wool fiber</i>	3 fiber/cm3 TWA (with a diameter of <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) <i>as Glass wool fiber</i>

Exposure Limits/Guidelines (Con't.)

	Result	Canada Ontario	Canada Quebec	Canada Saskatchewan	Canada Yukon	China
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	Not established	300 particle/mL TWA (as measured by Konimeter instrumentation, listed under Silica); 20 mppcf TWA (as measured by Impinger instrumentation, listed under Silica); 2 mg/m3 TWA (respirable mass, listed under Silica)	Not established
Cyclohexanone (108-94-1)	STELs	50 PPM STEL	Not established			
	TWAs	20 ppm TWA	100 mg/m3; 25 ppm			
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
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm3 TWA (respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter	1 fibre/cm3 TWAEV (respirable, listed under Fibres-Artificial Vitreous Mineral Fibres)	1 fiber/cm3 TWA (respirable fibers, listed under Synthetic vitreous fibers)	30 mppcf TWA (dust or fibrous); 10 mg/m3 TWA (dust or fibrous) <i>as Glass wool</i>	Not established

		method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i>	<i>as Glass wool fiber</i>	<i>as Glass wool fiber</i>	<i>fiber</i>	
Exposure Limits/Guidelines (Con't.)						
	Result	Czech Republic	Denmark	France	Germany DFG	Germany TRGS
Silica, amorphous (7631-86-9)	TWAs	0.1 mg/m3 TWA (respirable fraction); 4.0 mg/m3 TWA (as amorphous SiO2)	Not established	Not established	Not established	4 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction)
	MAKs	Not established	Not established	Not established	4 mg/m3 TWA MAK (inhalable fraction)	Not established
Cyclohexanone (108-94-1)	STELs	400 mg/m3 STEL	Not established	Not established		Not established
	TWAs	200 mg/m3 TWA	25 ppm TWA; 100 mg/m3 TWA	25 ppm TWA; 100 mg/m3 TWA		50 ppm TWA; 200 mg/m3 TWA
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 MAK	Not established
Glass, oxide, chemicals as Glass wool fiber	TWAs	Not established	1 fiber/cm3 TWA <i>as Glass wool fiber</i>	Not established	Not established	Not established
Exposure Limits/Guidelines (Con't.)						
	Result	Greece	India	Israel	Italy	Japan

Silica, amorphous (7631-86-9)	TWAs	Not established	10 mg/m3 TWA (total dust)	0.3 mg/m3 TWA (airborne dust no otherwise classified); 0.1 mg/m3 TWA (respirable dust)	Not established	Not established
Cyclohexanone (108-94-1)	TWAs					25 ppm OEL; 100 mg/m3 OEL
	STELs					Not established
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
Glass, oxide, chemicals as Glass wool fiber	TWAs	Not established	Not established	1 fiber/cm3 TWA (respirable fibers: length >5 µm, aspect ratio >=3:1, except asbestiform minerals, listed under Synthetic vitreous fibers) <i>as Glass wool fiber</i>	Not established	1 fiber/cm3 OEL <i>as Glass wool fiber</i>

Exposure Limits/Guidelines (Con't.)

	Result	Korea	Malaysia	Netherlands	NIOSH	OSHA
Silica, amorphous (7631-86-9)	TWAs	Not established	Not established	Not established	6 mg/m3 TWA	Not established
Cyclohexanone (108-94-1)	TWAs	20 ppm TWA		50 ppm TWA; 200 mg/m3 TWA	25 ppm TWA; 100 mg/m3 TWA	50 ppm TWA; 200 mg/m3 TWA
	STELs	50 ppm STEL		Not established	Not established	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
Glass, oxide, chemicals	TWAs	10 mg/m3 TWA (Serial No. 007) <i>as Glass wool fiber</i>	1 fiber/cm3 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) <i>as Glass wool fiber</i>	2 fibers/cm3 MAC-TGG <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

Exposure Limits/Guidelines (Con't.)

	Result	Singapore	South Africa	Spain
Silica, amorphous (7631-86-9)	TWAs	Not established	6 mg/m3 TWA (total inhalable dust); 3 mg/m3 TWA (respirable dust)	Not established
Cyclohexanone (108-94-1)	TWAs	20 ppm TWA		
	STELs	50 ppm STEL		
	Biological Limit Values (BLV)	8 mg/L urine end of shift cyclohexanol; 80 mg/L urine end of last shift of workweek 1,2 cyclohexanediol		
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]
	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)
Glass, oxide, chemicals	TWAs	10 mg/m3 PEL <i>as Glass wool fiber</i>	Not established	1 fiber/cm3 TWA [VLA-ED] (Fibers with a random orientation, with a content in Alkaline and Alkali-earth oxide [Na2O+K2O+CaO+MgO+BaO] above 18% in weight; manufacturing, commercialization, and use restrictions under REACH. 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) <i>as Glass wool fiber</i>

Exposure Control Notations

China

•N/A

Czech Republic

•N/A

Denmark

- 2-Butanone (78-93-3): **Skin Notations:** (Potential for cutaneous absorption)
- Cyclohexanone (108-94-1): **Skin Notations:** (Potential for cutaneous absorption)

Greece

•N/A

Italy

•N/A

Netherlands

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

Canada Ontario

- Cyclohexanone (108-94-1): **Skin:** (Absorption through skin, eyes, or mucous membranes)

Canada Quebec

- Cyclohexanone (108-94-1): **Skin:** (Skin designation)

France

•N/A

Spain

•N/A

ACGIH

- Cyclohexanone (108-94-1): **Carcinogens:** (A4 - Not Classifiable as a Human Carcinogen) | **Skin:** (Skin - potential significant contribution to overall exposure by the cutaneous route)
- Cyclohexanone (108-94-1): **TLV Basis-Critical Effects:** (upper respiratory tract and eye irritation (dust and mist))

Germany TRGS

- 2-Butanone (78-93-3): **Skin:** (skin notation)
- Cyclohexanone (108-94-1): **Skin:** (Skin notation)

Germany DFG

- 2-Butanone (78-93-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)
- Silica, amorphous (7631-86-9): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- Cyclohexanone (108-94-1): **Skin:** (Skin notation)

Exposure Limits Supplemental

Czech Republic

- N/A
- OSHA**
- Silica, amorphous (7631-86-9): **Mineral Dusts:** (20 mppcf TWA; (80)/(% SiO2) mg/m3 TWA)
- ACGIH**
- 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**
- 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. Use explosion-proof electrical/ventilating/lighting/equipment.

Personal Protective Equipment

Respiratory

- In case of insufficient ventilation, wear suitable respiratory equipment. 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 chemical splash safety goggles.

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.

Key to abbreviations

- ACGIH = American Conference of Governmental Industrial Hygiene
- BEI = Biological Exposure Indices
- MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration
- NIOSH = National Institute of Occupational Safety and Health
- OSHA = Occupational Safety and Health Administration
- PEL = Permissible Exposure Level determined by the Occupational Safety and Health Administration (OSHA)
- STEL = Short Term Exposure Limits are based on 15-minute exposures
- STEV = Short Term Exposure Value
- TLV = Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)
- TWA = Time-Weighted Averages are based on 8h/day, 40h/week exposures
- TWAEV = Time-Weighted Average Exposure Value

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, solid sheet.
Color	Tan or light yellow	Odor	None
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	1.2-2.0	Water Solubility	Negligible < 0.1 %

Viscosity	Data lacking	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility			
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	<0.2%
VOC (Vol.)	<0.2%	Volatiles (Wt.)	<0.2%
Volatiles (Vol.)	<0.2%		
Flammability			
Flash Point	Not relevant	UEL	Data lacking
LEL	Data lacking	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 decomposition 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, HBr, HCN

Section 11 - Toxicological Information

11.1 Information on toxicological effects

Components		
2-Butanone (< 0.1%)	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:Eye:Conjunctive irritation; Lungs, Thorax, or Respiration:Cough;</i> 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:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental Abnormalities:Musculoskeletal system</i>
Glass, oxide, chemicals (30% TO 65%)	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:Other changes</i>

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) • May cause mild irritation.

Chronic (Delayed) • No data available.

Eye

Acute (Immediate) • May cause mild eye irritation (dust).

Chronic (Delayed) • No data available.

Ingestion

Acute (Immediate) • No data available.

Chronic (Delayed) • No data available.

Mutagenic Effects • 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."

Reproductive Effects • No data available.

Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

Section 12 - Ecological Information

12.1 Toxicity

- Not expected to be harmful to aquatic life.

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

- No studies have been found.

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

- Material not supplied in bulk form.

Section 15 - Regulatory Information

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

SARA Hazard Classifications

- Chronic

State Right To Know				
Component	CAS	MA	NJ	PA
2-Butanone	78-93-3	Yes	Yes	Yes
Cyclohexanone	108-94-1	Yes	Yes	Yes

Silica, amorphous	7631-86-9	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
Cyclohexanone	108-94-1	Yes	No	Yes	Yes	No
Silica, amorphous	7631-86-9	Yes	No	Yes	Yes	No
Glass, oxide, chemicals	65997-17-3	Yes	No	Yes	Yes	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
2-Butanone	78-93-3	Yes	Yes	Yes
Cyclohexanone	108-94-1	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	Yes	Yes
Glass, oxide, chemicals	65997-17-3	Yes	Yes	Yes

Australia

Labor

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Australia - High Volume Industrial Chemicals List

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Australia - List of Designated Hazardous Substances - Classification

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	F, Xi R11, R36, R66, R67
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	10 tonne/yr Threshold category 1
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Australia - Ozone Protection Act - Scheduled Substances

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Australia - Priority Existing Chemical Program

•Cyclohexanone	108-94-1	
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•2-Butanone	78-93-3	Candidate chemical
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

•Cyclohexanone	108-94-1	D1B, D2A, D2B
•2-Butanone	78-93-3	B2, D2B
•Silica, amorphous	7631-86-9	Uncontrolled product according to WHMIS classification criteria
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Uncontrolled product according to WHMIS classification criteria (listed under Glass wool); D2A (listed under Mineral wool fiber)

Canada - WHMIS - Ingredient Disclosure List

•Cyclohexanone	108-94-1	1 %
•2-Butanone	78-93-3	1 %
•Silica, amorphous	7631-86-9	1 %
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Environment

Canada - CEPA - Priority Substances List

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Europe

Other

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

•Cyclohexanone	108-94-1	F, R10 C; Xn R20
•2-Butanone	78-93-3	F; R11 Xi; R36 R66 R67
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	C>=25% Xn R 20
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	F Xi R:11-36-66-67 S:(2)-9-16
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed

•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
•Cyclohexanone	108-94-1	S (2)- 25
•2-Butanone	78-93-3	S:(2)-9-16
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany

Environment

Germany - TA Luft - Types and Classes

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - TA Luft - Emission Limits for Carcinogenic Substances

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - TA Luft - Emission Limits for Fibers

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - TA Luft - Emission Limits for Inorganic Dusts

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - TA Luft - Emission Limits for Inorganic Gases

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - TA Luft - Emission Limits for Organic Substances

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - Water Classification (VwVwS) - Annex 1

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	ID Number 849, not considered hazardous to water
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes

•Cyclohexanone	108-94-1	
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•2-Butanone	78-93-3	ID Number 150, hazard class 1 - low hazard to waters
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
		ID Number 849, not considered hazardous to water
•Silica, amorphous	7631-86-9	
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

United States

Labor

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

Environment

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
		(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		

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

•Cyclohexanone	108-94-1	5000 lb final RQ; 2270 kg final RQ
•2-Butanone	78-93-3	5000 lb final RQ; 2270 kg final RQ
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed

•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S. - CERCLA/SARA - Section 313 - Emission Reporting		
•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing		
•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Included in waste streams: F005, F039
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	0.28 mg/L (wastewater); 36 mg/kg (nonwastewater)
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics		
•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	waste number U159 (Ignitable waste, Toxic waste)
•Silica, amorphous	7631-86-9	Not Listed

United States - California

Environment

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		carcinogen, initial date 7/1/90 (inhalable and biopersistent)

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

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

•Cyclohexanone	108-94-1	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed

United States - Pennsylvania

Labor

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed

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

•Cyclohexanone	108-94-1	
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	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)

- H226 - Flammable liquid and vapour
- H312 - Harmful in contact with skin
- H332 - Harmful if inhaled
- R10 - Flammable.
- R20/21 - Harmful by inhalation and in contact with skin.

Last Revision Date

- 12/July/2021

Preparation Date

- 31/May/2015

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.