

Safety Data Sheet

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

1.1 Product identifier

Product Name N4000-29 Copper Clad Laminate

Synonyms • N4000-29 Laminate

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

Relevant identified use(s)

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

North America **Europe** Manufacturer

AGC Multi Material AGC Multi Material AGC Multi Material Singapore Europe S.A. America, Inc. PTE, Ltd

1420 W. 12th Place 4 Gul Crescent Route des Usines, BP25 65303, Lannemezan, Tempe, AZ 85281

Jurong, Singapore 629520 **United States**

www.agc-multimaterial.com agc-ml.digital-po@agc.com

1.4 Emergency telephone number

+65 6861 7117 - Asia +33-5-62-98-52-90- Europe 1-480-967-5600- (8AM -(8AM-4PM M-F)

Cedex, France

5PM CST) 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 classifiedDSD/DPD • Not classified

2.2 Label Elements

CLP

Hazard • No label element(s) required statements

DSD/DPD

Risk phrases • No label element(s) required

2.3 Other Hazards

• 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.

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 • No label element(s) required

statements

2.3 Other hazards

OSHA HCS 2012 • Under United States Regulations (29 CFR 1910.1200(c) - Hazard Communication Standard), the product(s) listed above are exempt as article(s) under stated normal conditions of use.

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.

Section 3 - Composition/Information on Ingredients

3.1 Substances

• Material does not meet the criteria of a substance.

3.2 Mixtures

Composition								
Chemical Name	emical Name Identifiers							
Copper	CAS:7440-50-8 EC Number:231-159-6	30% TO 70%						
Cured epoxy resin	NDA	15% TO 35%						
Glass, oxide, chemicals	CAS:65997-17-3 EC Number:266-046-0	14.985% TO 34.965%						
Boric acid	CAS:10043-35-3 EC Number:233-139-2 EU Index:005-007-00-2	< 0.2%						
2-Propanol, 1-methoxy-	CAS:107-98-2 EC Number:203-539-1 EU Index:603-064-00-3	< 0.1%						
2-(2-Ethoxyethoxy)-ethanol	CAS:111-90-0 EC Number:203-919-7	< 0.1%						
1-Propanol, 2-methoxy-	CAS:1589-47-5 EC Number:216-455-5 EU Index:603-106-00-0	< 0.0005%						

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 person to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. If signs/symptoms continue, get medical attention.

Skin

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. Wash skin with soap and water. If signs/symptoms develop, get medical attention.

Eye

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If contact with material occurs flush eyes with water. If signs/symptoms develop, get medical attention.

Ingestion

• First aid is not expected to be necessary if material is used under ordinary conditions and as recommended. If signs/symptoms develop, get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

• Under normal conditions of use, no health effects are expected.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician • No specific actions or treatments recommended related to exposure to this material.

Section 5 - Firefighting Measures

5.1 Extinguishing media

Suitable Extinguishing Media

• In case of fire use media as appropriate for surrounding fire.

Unsuitable Extinguishing Media

• No data available.

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, Various Acids.

5.3 Advice for firefighters

• Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

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** No emergency procedures are expected to be necessary if material is used under ordinary conditions as recommended. Use normal clean up procedures.

6.2 Environmental precautions

• Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

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

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 25°C (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	Canada Alberta	Canada British Columbia	Canada Manitoba		
1-Propanol, 2-	STELs	Not established	Not established	Not established	40 ppm STEL	Not established		
methoxy- (1589-47-5)	TWAs	Not established	Not established	Not established	20 ppm TWA	Not established		
2-Propanol, 1- methoxy-	STELs	100 ppm STEL	150 ppm STEL; 553 mg/m3 STEL	150 ppm STEL; 553 mg/m3 STEL	75 ppm STEL	100 ppm STEL		
(107-98-2)	TWAs	50 ppm TWA	100 ppm TWA; 369 mg/m3 TWA	100 ppm TWA; 369 mg/m3 TWA	50 ppm TWA	50 ppm TWA		
Boric acid	STELs	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	6 mg/m3 STEL (inhalable, listed under Borate compounds, inorganic)	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)		
(10043-35-3)	TWAs	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	2 mg/m3 TWA (inhalable, listed under Borate compounds, inorganic)	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)		
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)	Not established	1 fibre/cm3 TWA as Glass wool fiber	1 fibre/cm3 TWA (fibres >5 µm, with an aspect ratio of >=3:1, as determined by the membrane filter method at 400-450 times magnification (4 mm objective), using phase-contrast illumination, listed under Synthetic vitreous fibres)	1 fiber/cm3 TWA (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, respirable fibers, listed under Synthetic vitreous fibers)		
Copper as Copper	TWAs	as Glass wool fiber 0.2 mg/m3 TWA	1 mg/m3 TWA (dust and mist); 0.2 mg/m3	0.2 mg/m3 TWA	as Glass wool fiber 1 mg/m3 TWA (dust and mist); 0.2 mg/m3	as Glass wool fiber 0.2 mg/m3 TWA		
compounds	1 777.0	(fume)	TWA (fume)	TWA (dust and mist)	TWA (fume)	(fume)		
	1		posure Limits/Gu		_			
	Result	Brunswick	Canada Northwest Territories	Canada Nova Scotia	Canada Nunavut	Canada Ontario		
2-Propanol, 1- methoxy-	STELs	150 ppm STEL; 553 mg/m3 STEL	150 ppm STEL; 540 mg/m3 STEL	100 ppm STEL	150 ppm STEL; 540 mg/m3 STEL	150 ppm STEL		
(107-98-2)	TWAs	100 ppm TWA; 369 mg/m3 TWA	100 ppm TWA; 360 mg/m3 TWA	50 ppm TWA	100 ppm TWA; 360 mg/m3 TWA	100 ppm TWA		
2-(2- Ethoxyethoxy)- ethanol (111-90-0)	TWAs	Not established	Not established	Not established	Not established	30 ppm TWA; 165 mg/m3 TWA		
Boric acid	STELs	Not established	Not established	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	6 mg/m3 STEL (inhalable, listed under Borate compounds, inorganic)		
(10043-35-3)	TWAs	Not established	Not established	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds,	Not established	2 mg/m3 TWA (inhalable, listed under Borate compounds,		

				inorganic)		inorganic)				
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fibre/cm3 TWA (fibres >5 µm with a diameter <3 µm, aspect ratio >5:1) as Glass wool fiber	3 fibre/cm3 TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) as Glass wool fiber	1 fiber/cm3 TWA (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, respirable fibers, listed under Synthetic vitreous fibers) as Glass wool fiber	3 fibre/cm3 TWA (with a diameter <=3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) as Glass wool fiber	1 fibre/cm3 TWA (fibres >5 μm in length and an aspect ratio >=3:1 as determined by the membrane filter method at 400-450 times magnification (4-mm objective), using phase-contrast illumination, respirable, listed under Synthetic Vitreous Fibres (Man Made Mineral Fibres)) as Glass wool fiber				
Copper	TWAs	(fume); 1 mg/m3	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)	0.2 mg/m3 TWA (fume)	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)				
(7440-50-8)	STELs	Not established	0.6 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)	Not established	0.6 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)	Not established				
Exposure Limits/Guidelines (Con't.)										
	Result	Canada Quebec	Canada Saskatchewan	Canada Yukon	China	Czech Republic				
	Ceilings	Not established	Not established	Not established	Not established	550 mg/m3 Ceiling				
2-Propanol, 1- methoxy-	TWAs	100 ppm TWAEV; 369 mg/m3 TWAEV	100 ppm TWA	100 ppm TWA; 360 mg/m3 TWA	Not established	270 mg/m3 TWA				
(107-98-2)	STELs	150 ppm STEV; 553 mg/m3 STEV	150 ppm STEL	150 ppm STEL; 450 mg/m3 STEL	Not established	Not established				
Boric acid	STELs	Not established	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	Not established				
(10043-35-3)	TWAs	Not established	2 mg/m3 TWA (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	Not established				
	TWAs	1 fibre/cm3 TWAEV (respirable, listed under Fibres - Artificial Vitreous Mineral Fibres)	1 fibre/cm3 TWA (respirable fibres, listed under Synthetic vitreous fibres)	30 mppcf TWA (dust or fibrous); 10 mg/m3 TWA (dust or fibrous)	Not established	Not established				
Glass, oxide,		as Glass wool fiber	as Glass wool fiber							
chemicals as Glass wool fiber	STELs	Not established	3 fibre/cm3 STEL (respirable fibres, listed under Synthetic Vitreous Fibres)	Not established	Not established	Not established				
Copper (7440-50-8)	STELs	Not established	as Glass wool fiber 0.6 mg/m3 STEL (fume); 3 mg/m3 STEL (dust and mist)	0.2 mg/m3 STEL (fume); 2 mg/m3 STEL (dust and mist)	2.5 mg/m3 STEL (dust); 0.6 mg/m3 STEL (fume)	Not established				

	TWAs	0.2 mg/m3 TWAEV (fume); 1 mg/m3 TWAEV (dust and mist)	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)	1 mg/m3 TWA (dust); 0.2 mg/m3 TWA (fume)	1 mg/m3 TWA (dust); 0.1 mg/m3 TWA (fume)		
	Ceilings	Not established	Not established	Not established	Not established	2 mg/m3 Ceiling (dust); 0.2 mg/m3 Ceiling (fume)		
	Exposure Limits/Guidelines (Con't.)							
	Result	Denmark	France	Germany DFG	Germany TRGS	Greece		
1-Propanol, 2- methoxy- (1589-47-5)	TWAs	20 ppm TWA; 75 mg/m3 TWA	Not established	Not established	5 ppm TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 8); 19 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 8)	Not established		
	Ceilings	Not established	Not established	40 ppm Peak; 152 mg/m3 Peak	Not established	Not established		
	MAKs	Not established	Not established	5 ppm TWA MAK; 19 mg/m3 TWA MAK	Not established	Not established		
2-Propanol, 1- methoxy- (107-98-2)	TWAs	50 ppm TWA; 185 mg/m3 TWA	50 ppm TWA [VME] (restrictive limit); 188 mg/m3 TWA [VME] (restrictive limit)	Not established	100 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 370 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 2)	100 ppm TWA; 360 mg/m3 TWA		
	STELs	Not established	100 ppm STEL [VLCT] (restrictive limit); 375 mg/m3 STEL [VLCT] (restrictive limit)	Not established	Not established	300 ppm STEL; 1080 mg/m3 STEL		
	Ceilings	Not established	Not established	200 ppm Peak; 740 mg/m3 Peak	Not established	Not established		
	MAKs	Not established	Not established	100 ppm TWA MAK; 370 mg/m3 TWA MAK	Not established	Not established		
2-(2- Ethoxyethoxy)- ethanol (111-90-0)	TWAs	Not established	Not established	Not established	6 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are	Not established		

					observed, exposure	
					factor 2); 35 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 2)	
	Ceilings	Not established	Not established	100 mg/m3 Peak (inhalable fraction)	Not established	Not established
	MAKs	Not established	Not established	50 mg/m3 TWA MAK (inhalable fraction)	Not established	Not established
Boric acid (10043-35-3)	TWAs	Not established	Not established	Not established	0.5 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 2)	Not established
	Ceilings	Not established	Not established	10 mg/m3 Peak (inhalable fraction, as B)	Not established	Not established
	MAKs	Not established	Not established	10 mg/m3 TWA MAK (inhalable fraction, as B)	Not established	Not established
Glass, oxide, chemicals	TWAs	1 fiber/cm3 TWA as Glass wool fiber	Not established	Not established	Not established	Not established
	TWAs	1.0 mg/m3 TWA (dust and powder); 0.1 mg/m3 TWA (fume)	0.2 mg/m3 TWA [VME] (fume); 1 mg/m3 TWA [VME] (dust, as Cu)	Not established	Not established	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust)
Connor	STELs	Not established	2 mg/m3 STEL [VLCT] (dust, as Cu)	Not established	Not established	2 mg/m3 STEL (dust)
Copper (7440-50-8)	Ceilings	Not established	Not established	0.02 mg/m3 Peak (respirable fraction)	Not established	Not established
	MAKs	Not established	Not established	0.01 mg/m3 TWA MAK (including inorganic copper compounds, respirable fraction)	Not established	Not established
	D		posure Limits/Gu			W
	Result	India	Israel	Italy	Japan	Korea
2-Propanol, 1- methoxy-	STELs	Not established	100 ppm STEL	150 ppm STEL Breve termine; 568 mg/m3 STEL Breve termine	Not established	150 ppm STEL (Serial No. 672); 540 mg/m3 STEL (Serial No. 672)
(107-98-2)	TWAs	Not established		100 ppm TWA; 375 mg/m3 TWA	Not established	100 ppm TWA (Serial No. 672); 360 mg/m3 TWA (Serial No. 672)
Boric acid (10043-35-3)	STELs	Not established	6 mg/m3 STEL (inhalable fraction, listed under Borate compounds, inorganic)	Not established	Not established	Not established
	TWAs	Not established	2 mg/m3 TWA (inorganic, inhalable	Not established	Not established	Not established

				fraction)				
Glass, oxide, chemicals as Glass wool fiber	TWAs	Not es	stablished	1 fiber/m3 TWA (length >5 μm, diameter <3 μm, aspect ratio >=3:1, except asbestiform minerals, listed under Synthetic vitreous fibers) as Glass wool fiber	Not establish	hed	1 fiber/cm3 OEL as Glass wool fiber	10 mg/m3 TWA (Serial No. 009) as Glass wool fiber
	STELs	Not es	stablished	Not established	Not establis	hed	Not established	2 mg/m3 STEL (dust and mist, as Cu, Serial No. 010)
Copper (7440-50-8)	TWAs	0.2 mg (fume)	g/m3 TWA)	0.2 mg/m3 TWA (fume)	Not establis	hed	Not established	1 mg/m3 TWA (dust and mist, as Cu, Serial No. 010); 0.1 mg/m3 TWA (fume, as Cu, Serial No. 011)
				Exposure Limits/Gu	uidelines (C	Con't.)		
	Result		Malaysia	Netherlands	NIOS	SH	OSHA	Singapore
2-Propanol, 1- methoxy-	TWAs		om TWA; 369 3 TWA	375 mg/m3 TWA	100 ppm TV mg/m3 TWA		Not established	100 ppm PEL; 369 mg/m3 PEL
(107-98-2)	STELs	Not es	stablished	563 mg/m3 STEL	150 ppm ST mg/m3 STE		Not established	150 ppm STEL; 553 mg/m3 STEL
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fibre/mL TWA (fibres longer than 5 µm and with an aspect ratio equal to or greater than 3:1 as determined by the membrane filter method at 400-500X magnification (4-mm objective), using phase-contrast illumination)		Not established	3 fiber/cm3 (fibers <= 3. diameter an µm in length mg/m3 TWA as Glass wo	5 μm in d >= 10 n); 5 λ (total)	Not established	10 mg/m3 PEL as Glass wool fiber
Copper (7440-50-8)	TWAs	0.2 mg	ess wool fiber g/m3 TWA); 1 mg/m3 dust and mis	0.1 mg/m3 TWA (inhalable fraction)	and mist); 0 TWA (fume)	.1 mg/m3)	0.1 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist)	0.2 mg/m3 PEL (fume); 1 mg/m3 PEL (dust and mist)
				Exposure Limits/Gu	uidelines (C	Con't.)		
1-Propanol, 2-meth (1589-47-5)	юху-		Result TWAs	South Afric Not established	<u>a</u>	5 ppm T	Spain WA [VLA-ED]; 19 mg/r	n3 TWA [VLA-ED]
2-Propanol, 1-meth	IOXV-		STELs	300 ppm STEL; 1080 m	g/m3 STEL	150 ppm EC]	STEL [VLA-EC]; 568	mg/m3 STEL [VLA-
(107-98-2)	y-		TWAs	100 ppm TWA; 360 mg/i	m3 TWA	100 ppm	TWA [VLA-ED] (indica WA [VLA-ED] (indicati	
5		STELs	Not established		-	STEL [VLA-EC]	·	
Boric acid (10043-35-3) TWAs			Not established		2 mg/m3 TWA [VLA-ED] (it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound)			
Glass, oxide, chem	icals		TWAs	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		

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			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) as Glass wool fiber
Copper	STELs	2 mg/m3 STEL (dust and mist, as Cu)	Not established
(7440-50-8)	TWAs	0.2 mg/m3 TWA (fume); 1 mg/m3 TWA (dust and mist, as Cu)	0.2 mg/m3 TWA [VLA-ED] (fume); 1 mg/m3 TWA [VLA-ED] (dust and mist, as Cu)

Exposure Control Notations

Czech Republic

•2-Propanol, 1-methoxy- (107-98-2): Skin: (Potential for cutaneous absorption)

Denmark

•2-Propanol, 1-methoxy- (107-98-2): Skin Notations: (Potential for cutaneous absorption)

Greece

•2-Propanol, 1-methoxy- (107-98-2): **Skin:** (skin - potential for cutaneous absorption)

Italy

•2-Propanol, 1-methoxy- (107-98-2): **Skin:** (skin - potential for cutaneous absorption)

Netherlands

•2-Propanol, 1-methoxy- (107-98-2): Skin: (skin notation)

Spain

- Boric acid (10043-35-3): Reproductive Toxins: (known or suspected human reproductive toxin with classification from animal data)
- •2-Propanol, 1-methoxy- (107-98-2): Skin: (skin potential for cutaneous exposure)
- •1-Propanol, 2-methoxy- (1589-47-5): **Reproductive Toxins:** (known or suspected human reproductive toxin with classification from animal data) **ACGIH**
- Boric acid (10043-35-3): Carcinogens: (A4 Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic))
- •Glass, oxide, chemicals as Glass wool fiber: Carcinogens: (A3 Confirmed Animal Carcinogen with Unknown Relevance to Humans (listed under Synthetic vitreous fibers))
- •2-Propanol, 1-methoxy- (107-98-2): Carcinogens: (A4 Not Classifiable as a Human Carcinogen)

Germany TRGS

•1-Propanol, 2-methoxy- (1589-47-5): Skin: (skin notation)

Germany DFG

- •Copper (7440-50-8): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)
- •Boric acid (10043-35-3): Pregnancy: (possible risk to embryo/fetus even if exposure limits adhered to (inhalable fraction, calculated as B))
- •2-(2-Ethoxyethoxy)-ethanol (111-90-0): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)
- •2-Propanol, 1-methoxy- (107-98-2): Pregnancy: (no risk to embryo/fetus if exposure limits adhered to)
- •1-Propanol, 2-methoxy- (1589-47-5): **Pregnancy:** (risk to embryo/fetus probable) | **Skin:** (skin notation)

Exposure Limits Supplemental

Spain

•2-(2-Ethoxyethoxy)-ethanol (111-90-0): Under Review: (50 mg/m3 VLA-ED; 100 mg/m3 VLA-EC)

ACGIH

- •Copper (7440-50-8): TLV Basis Critical Effects: (metal fume fever (fume))
- •Copper as Copper compounds: TLV Basis Critical Effects: (gastrointestinal (dust and mist); irritation (dust and mist))
- •Boric acid (10043-35-3): TLV Basis Critical Effects: (upper respiratory tract irritation (listed under Borate compounds, inorganic))
- •2-Propanol, 1-methoxy- (107-98-2): TLV Basis Critical Effects: (eye and upper respiratory tract irritation)

Germany TRGS

•2-Propanol, 1-methoxy- (107-98-2): BELs: (15 mg/L Medium: urine Time: end of shift Parameter: 1-Methoxypropan-2-ol)

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

• In case of insufficient ventilation, wear suitable respiratory equipment.

Eye/Face

· Wear safety glasses.

Skin/Body

• Wear appropriate gloves.

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

= Maximale Arbeitsplatz Konzentration is the maximum permissible

concentration

NIOSH = National Institute of Occupational Safety and Health

OSHA = Occupational Safety and Health Administration

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

 $= \frac{\text{Threshold Limit Value determined by the American Conference of Governmental Industrial Hygienists (ACGIH)}{}$

= 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	Solid yellow sheet with copper cladding on one or both sides.
Color	Yellow	Odor	None
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Not relevant	Melting Point	Data lacking
Decomposition Temperature	> 200 C(> 392 F)	рН	Not relevant
Specific Gravity/Relative Density	1.6 to 2.3 Water=1	Water Solubility	Negligible
Viscosity	Not relevant	Explosive Properties	Data lacking
Oxidizing Properties:	Data lacking		
Volatility		•	•
Vapor Pressure	Not relevant	Vapor Density	Not relevant
Evaporation Rate	Not relevant	VOC (Wt.)	< 0.1 %
VOC (Vol.)	< 0.1 %	Volatiles (Wt.)	< 0.1 %
Volatiles (Vol.)	< 0.1 %		
Flammability			
Flash Point	Data lacking	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.

SF-126 Rev A Format: EU CLP/REACH, EU DSD/DPD, WHMIS, and OSHA HCS 2012

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

· Excess heat.

10.5 Incompatible materials

• No data available.

10.6 Hazardous decomposition products

• Acrid vapors and fumes, aliphatic and aromatic hydrocarbons of variable composition, CO, CO2, NOx, HBr, HCN.

Section 11 - Toxicological Information

11.1 Information on toxicological effects

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•Data lacking OSHA HCS 2012•Data lacking		
Skin sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking		
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•Data lacking		
Respiratory sensitization	EU/CLP•Data lacking OSHA HCS 2012•Data lacking		
Serious eye damage/Irritation	EU/CLP•Data lacking OSHA HCS 2012•Data lacking		

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

No data available

(Delayed)

Skin

Acute (Immediate

• Under normal conditions of use, no health effects are expected.

(Immediate)

No data available

Chronic (Delayed)

Eye Acute

• Under normal conditions of use, no health effects are expected.

(Immediate)

Chronic • No data available

(Delayed)

Ingestion
Acute

• Under normal conditions of use, no health effects are expected.

(Immediate) Chronic

No data available

(Delayed) 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.

Section 12 - Ecological Information

12.1 Toxicity

Material data lacking.

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	· · · · · · · · · · · · · · · · · · ·		14.4 Packing group	14.5 Environmental hazards
DOT	NDA	Not Regulated	NDA	NDA	NDA
TDG	NDA	Not Regulated	NDA	NDA	NDA
IMO/IMDG	NDA	Not Regulated	NDA	NDA	NDA
IATA/ICAO	NDA	Not Regulated	NDA	NDA	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.

Section 15 - Regulatory Information

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

SARA Hazard Classifications

None

	State Right To Know								
Component	CAS	MA	NJ	PA					
1-Propanol, 2- methoxy-	1589-47-5	No	No	No					
2-(2- Ethoxyethoxy)- ethanol	111-90-0	No	No	No					
2-Propanol, 1- methoxy-	107-98-2	Yes	Yes	Yes					
Boric acid	10043-35- 3	No	No	No					
Copper	7440-50-8	Yes	Yes	Yes					
Glass, oxide, chemicals	65997-17- 3	No	No	No					

Inventory								
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS		
1-Propanol, 2- methoxy-	1589-47-5	Yes	No	Yes	Yes	No		
2-(2- Ethoxyethoxy)- ethanol	111-90-0	Yes	No	Yes	Yes	No		
2-Propanol, 1-	107-98-2	Yes	No	Yes	Yes	No		

methoxy-							
Boric acid	10043-35- 3	Yes	No	Yes	Yes	No	
Copper	7440-50-8	Yes	No	Yes	Yes	No	
Glass, oxide, chemicals	65997-17- 3	Yes	No	Yes	Yes	No	
			Inventory (C	on't.)			
Con	nponent	CAS	ŀ	Korea KECL	T	SCA	
1-Propanol, 2-m	ethoxy-	1589-47-5		Yes	`	Yes	
2-(2-Ethoxyetho	xy)-ethanol	111-90-0		Yes	\	Yes	
2-Propanol, 1-methoxy-		107-98-2		Yes	١	Yes	
Boric acid 1		10043-35-3		Yes	\	Yes	
Copper	per 7440-50-8 Yes		/es				
Glass, oxide, chemicals		65997-17-3		Yes	\	Yes	

Australia

Labor

Australia - Work Health and Safety Regulations - Hazardous Substances Requiring I	Joalth Monitorin	
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Australia - High Volume Industrial Chemicals List	00001-11-0	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	
•Glass, oxide, chemicals	65997-17-3	Not Listed
Australia - List of Designated Hazardous Substances - Classification		
•1-Propanol, 2-methoxy-	1589-47-5	Xi Repr.Cat.2 R10, R61, R37/38, R41
•Copper	7440-50-8	Self classification required (dust, fume and mist)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	R10, R67
•Boric acid	10043-35-3	Repr.Cat.2 R60, R61
•Glass, oxide, chemicals	65997-17-3	Not Listed
Environment Australia - National Pollutant Inventory (NPI) Substance List		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	10 tonne/yr Threshold category 1 (Copper and compounds); 2000 tonne/yr Threshold category 2b (Copper and compounds); 60000 MWH Threshold category 2b (Copper and compounds); 20 MW Threshold category 2b (Copper and compounds)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed

•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Australia - Ozone Protection Act - Scheduled Substances		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Australia - Priority Existing Chemical Program		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Canada		
Callaua		
Labor		
Canada - WHMIS - Classifications of Substances	1500 1= =	N. (1) ()
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
0	7440 50 0	Uncontrolled product
•Copper	7440-50-8	according to WHMIS
0 /0 [4]4	444.00.0	classification criteria
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	B3, D2B B2
•2-Propanol, 1-methoxy-	107-98-2	D2A
•Boric acid	10043-35-3	
•Glass, oxide, chemicals Canada - WHMIS - Ingredient Disclosure List	65997-17-3	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	1 %
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	1 %
•2-Propanol, 1-methoxy-	107-98-2	1 %
•Boric acid	10043-35-3	
•Glass, oxide, chemicals	65997-17-3	Not Listed
Glass, Oxide, Chemicals	03997-17-3	Not Listed
Environment		
Canada - CEPA - Priority Substances List		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Europe		
•		
Other		
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		R10 Xi; R37/38-41
•1-Propanol, 2-methoxy-	1589-47-5	Repr.Cat.2; R61
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	R10 R67
•Boric acid	10043-35-3	Repr.Cat.2; R60-61
•Glass, oxide, chemicals	65997-17-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits	2230. 11 0	
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed

•2-Propanol, 1-methoxy-	107-98-2	Not Listed
		5.5%<=C: Repr.Cat.2; R:60-
•Boric acid	10043-35-3	61
•Glass, oxide, chemicals	65997-17-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		
•1-Propanol, 2-methoxy-	1589-47-5	T R:61-10-37/38-41 S:53-45
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy- •Boric acid	107-98-2	R:10-67 S:(2)
•Glass, oxide, chemicals	10043-35-3 65997-17-3	T R:60-61 S:53-45 Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations	03997-17-3	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases		
•1-Propanol, 2-methoxy-	1589-47-5	S:53-45
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	S:(2)
•Boric acid	10043-35-3	
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany		
Environment		
Germany - TA Luft - Types and Classes		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	inorganic dust Substance: 5.2.2, Class III
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - TA Luft - Emission Limits for Carcinogenic Substances	1500 17 5	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5 7440-50-8	Not Listed Not Listed
Copper2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - TA Luft - Emission Limits for Fibers		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Dusts	4500 47 5	NI-41:-4I
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	5 g/h Mass flow (Class III); 1 mg/m3 Mass concentration (Class III)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed

•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - TA Luft - Emission Limits for Inorganic Gases		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - TA Luft - Emission Limits for Organic Substances		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 1	00007 11 0	Trot Elotod
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
· · · - p - · · · · · · · · · · · · · ·		ID Number 1443, not
•Copper	7440-50-8	considered hazardous to water
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes	00007 17 0	rvot Elotod
, , , , , , , , , , , , , , , , , , ,		ID Number 1746, hazard
•1-Propanol, 2-methoxy-	1589-47-5	class 1 - low hazard to waters
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	ID Number 101, hazard class 1 - low hazard to waters
•2-Propanol, 1-methoxy-	107-98-2	ID Number 1597, hazard class 1 - low hazard to waters
•Boric acid	10043-35-3	ID Number 315, hazard class 1 - low hazard to waters
•Glass, oxide, chemicals	65997-17-3	Not Listed
Germany - Water Classification (VwVwS) - Annex 3		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
nited States		
ahar.		
abor		
U.S OSHA - Process Safety Management - Highly Hazardous Chemicals	1500 17 5	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S OSHA - Specifically Regulated Chemicals		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed

•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
nvironment		
U.S CAA (Clean Air Act) - 1990 Hazardous Air Pollutants		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities •1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	5000 lb final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 µm); 2270
Соррег	7440-50-6	kg final RQ (no reporting of releases of this hazardous substance is required if the diameter of the pieces of the solid metal released is >100 μm)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	4500 47 5	Negliga
•1-Propanol, 2-methoxy-	1589-47-5 7440-50-8	Not Listed Not Listed
*Copper *2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs	4500 47 5	Negliga
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
*Copper *2-(2-Ethoxyethoxy)-ethanol	7440-50-8	Not Listed Not Listed
•2-Propanol, 1-methoxy-	111-90-0 107-98-2	Not Listed Not Listed
•Boric acid	107-98-2	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Section 313 - Emission Reporting	00001-11-0	ot Elotod
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
	7440-50-8	1.0 % de minimis
•Copper	744U-JU-0	concentration
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed

Class svida shamisala	CE007 47 0	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S CERCLA/SARA - Section 313 - PBT Chemical Listing •1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid		
	10043-35-3	Not Listed
 Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - Constituents for Detection 	65997-17-3	Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	(total)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - List for Hazardous Const		NOT LISTED
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	(total)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wa		110t Liotod
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	(total)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
Class svide shamisele	65007 17 3	Not Listed
•Glass, oxide, chemicals	65997-17-3	NOT LISTED
	65997-17-3	NOT LISTED
United States - California	65997-17-3	Not Listed
United States - California Environment	03997-17-3	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List		
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy-	1589-47-5	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper	1589-47-5 7440-50-8	Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol	1589-47-5 7440-50-8 111-90-0	Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3	Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals	1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3	Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL)	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed Not Listed
Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) •1-Propanol, 2-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) *1-Propanol, 2-methoxy- *Copper	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid •Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) •1-Propanol, 2-methoxy- •Copper •2-(2-Ethoxyethoxy)-ethanol •2-Propanol, 1-methoxy- •Boric acid	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) *1-Propanol, 2-methoxy- *Copper *2-(2-Ethoxyethoxy)-ethanol *2-Propanol, 1-methoxy- *Boric acid *Glass, oxide, chemicals	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2	Not Listed
United States - California Environment U.S California - Proposition 65 - Carcinogens List 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - No Significant Risk Levels (NSRL)	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed
Environment U.S California - Proposition 65 - Carcinogens List 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 3-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - No Significant Risk Levels (NSRL) 1-Propanol, 2-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed
Environment U.S California - Proposition 65 - Carcinogens List 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - No Significant Risk Levels (NSRL) 1-Propanol, 2-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed
Environment U.S California - Proposition 65 - Carcinogens List 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Developmental Toxicity 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) 1-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 2-Propanol, 2-methoxy- Copper 2-(2-Ethoxyethoxy)-ethanol 3-Propanol, 1-methoxy- Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - No Significant Risk Levels (NSRL) 1-Propanol, 2-methoxy-	1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3 1589-47-5 7440-50-8 111-90-0 107-98-2 10043-35-3 65997-17-3	Not Listed

Boric acid Glass, oxide, chemicals U.S California - Proposition 65 - Reproductive Toxicity - Female	10043-35-3 65997-17-3	Not Listed Not Listed
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S California - Proposition 65 - Reproductive Toxicity - Male		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed

United States - Pennsylvania

Labor

0.5 Pelilisylvallia - KTK (Right to Khow) - Elivironnientai nazatu List		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	(dust and fume)
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed
•Boric acid	10043-35-3	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances		
•1-Propanol, 2-methoxy-	1589-47-5	Not Listed
•Copper	7440-50-8	Not Listed
•2-(2-Ethoxyethoxy)-ethanol	111-90-0	Not Listed
•2-Propanol, 1-methoxy-	107-98-2	Not Listed

15.2 Chemical Safety Assessment

• Chemical Safety Assessment is not required.

15.3 Other Information

·Glass, oxide, chemicals

Boric acid

• RoHS CERTIFICATION: The Restriction of Hazardous Substances in Electrical and Electronic Equipment (RoHS), Article 4 of EU Directive (2011/65/EU). We hereby certify that the hazardous substances regulated by the RoHS Directive 2011/65/EU are not used intentionally as ingredient(s) this product. This certification is valid only for this product. Packaging materials were not considered for this certification.

Section 16 - Other Information

Last Revision Date

• 15/July/2021

IIS - Panneylyania - PTK (Pight to Know) - Environmental Hazard List

- **Preparation Date**
 - 12/June/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

10043-35-3

65997-17-3

Not Listed

Not Listed

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.

Key to abbreviations NDA = No Data Available

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