

Safety Data Sheet

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

1.1 Product identifier

Product Name

Mercurywave ® 9350 Unclad Laminate

Synonyms

• Mercurywave® Unclad Laminate

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

Relevant identified

Use(s) advised against

use(s)

• Laminate for consumer and industrial electronics.

• Consumer goods in direct contact with food stuffs, potable water, or continuous skin

contact

1.3 Details of the supplier of the safety data sheet

Manufacturer

North America
AGC Multi Material
America. Inc.

Asia AGC Multi Material Singapore PTE, Ltd

AGC Multi Material Europe S.A.

Europe

1420 W. 12th 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.rf-po@agc.com

1.4 Emergency telephone number

1-480-967-5600-(8AM - 5PM CST) +65 6861 7117 - Asia

+33-5-62-98-52-90- Europe (8AM-4PM M-F)

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 No label element(s) required.

statements DSD/DPD

• No label element(s) required. Risk phrases

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.

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

2.1 Classification of the substance or mixture

OSHA HCS

Not Classified

2012

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 - Hazard Communication Standard), these product(s) are exempt and considered manufactured article(s) under stated normal use conditions.

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	Identifiers	%				
	CAS:78-93-3					
2-Butanone	EC Number:201-159-0	<0.1%				
	EU Index:606-002-00-3					
	CAS:68-12-2					
Formamide, N,N-dimethyl-	EC Number:200-679-5	<0.1%				
	EU Index:616-001-00-X					
Ciliaa amarahaya	CAS:7631-86-9	7% TO 15%				
Silica, amorphous	EC Number:231-545-4	7 % 10 15%				
Cured energy regin mixture	CAS:NA	20% TO 50%				
Cured epoxy resin mixture	EC Number:NA	20% 10 30%				
Glass, oxide, chemicals	CAS:65997-17-3	30% TO 65%				
Glass, Oxide, Chemicais	EC Number:266-046-0	30% 10 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

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

Media

Unsuitable

Do not use straight streams.

Extinguishing Media

5.2 Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Hazardous decomposition will occur at elevated temperatures

Hazardous Combustion • Nitrous Oxides, Aldehydes, Carbon Monoxide, Various Acids.

Products

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 • Avoid generating dust.

Measures Carefully shovel or sweep up spilled material and place in suitable container.

6.4 Reference to other sections

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

Section 7 - Handling and Storage

7.1 Precautions for safe handling

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

7.2 Conditions for safe storage, including any incompatibilities

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

		Exposu	re Limits/Guide	lines		
	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
Formamide, N,N- dimethyl- (68-12-2)	TWAs	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA	8 ppm TWA LT; 24 mg/m3 TWA LT	10 ppm TWA; 30 mg/m3 TWA	10 ppm TWA
2-Butanone	STELs	300 ppm STEL	300 ppm STEL; 890 mg/m3 STEL	Not established	300 ppm STEL; 885 mg/m3 STEL	100 ppm STEL
(78-93-3)	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) as Glass wool fiber	0.5 fibre/mL TWA (listed under Synthetic mineral fibres) as Glass wool fiber	Not established	1 fiber/cm3 TWA as Glass wool fiber	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) as Glass wool fiber
	<u> </u>	Exposure Li	mits/Guidelines	s (Con't.)	ı	
	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, regulated under Silica flour)	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 Silica flour, total mass)
Formamide, N,N-	TWAs	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA	10 ppm TWA; 30 mg/m3 TWA	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA
dimethyl- (68-12-2)	STELs	Not established	Not established	20 ppm STEL; 60 mg/m3 STEL	Not established	20 ppm STEL; 60 mg/m3 STEL
2-Butanone (78-93-3)	STELs	300 ppm STEL	300 ppm STEL; 885 mg/m3 STEL	300 ppm STEL; 885 mg/m3 STEL	300 ppm STEL	300 ppm STEL; 885 mg/m3 STEL

			200 ppm TWA;	200 ppm TWA;		200 ppm TWA;
	TWAs	200 ppm TWA	590 mg/m3 TWA	590 mg/m3 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) as Glass wool fiber	1 fiber/cm3 TWA (fibers >5 μm with a diameter of <3 μm, aspect ratio >5:1) as Glass wool fiber	ibers >5 µm with diameter of <3 m, aspect ratio 5:1) (with a diameter of <3.5 µm and a length >=10 µm); 5 mg/m3 TWA (total mass) as Glass wool fiber		3 fiber/cm3 TWA (with a diameter of <=3.5 μm and a length >=10 μm); 5 mg/m3 TWA (total mass) as Glass wool fiber
		Exposure Li	mits/Guidelines	(Con't.)	fiber	
	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
Formamide, N,N-	STELs	Not established	Not established	15 ppm STEL	20 ppm STEL; 60 mg/m3 STEL	40 mg/m3 STEL
dimethyl- (68-12-2)	TWAs	10 ppm TWA	10 ppm TWAEV; 30 mg/m3 TWAEV	10 ppm TWA	10 ppm TWA; 30 mg/m3 TWA	20 mg/m3 TWA
2-Butanone	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
(78-93-3)	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 method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic	1 fibre/cm3 TWAEV (respirable, listed under Fibres- Artificial Vitreous Mineral Fibres) as Glass wool fiber	1 fiber/cm3 TWA (respirable fibers, listed under Synthetic vitreous fibers) as Glass wool fiber	30 mppcf TWA (dust or fiberous); 10 mg/m3 TWA (dust or fiberous) as Glass wool fiber	Not established

		vitreous fibers)				
		as Glass wool fiber				
			Limits/Guidelin	es (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
	Ceilings	30 mg/m3 Ceiling	Not established	Not established	10 ppm Peak; 30 mg/m3 Peak	Not established
Formamide, N,N-dimethyl-(68-12-2)	TWAs	15 mg/m3 TWA	5 ppm TWA; 15 mg/m3 TWA	5 ppm TWA [VME] (restrictive limit); 15 mg/m3 TWA [VME] (restrictive limit)	Not established	5 ppm TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2); 15 mg/m3 TWA AGW (The risk of damage to the embryo or fetus cannot be excluded even when AGW and BGW values are observed, exposure factor 2)
	STELs	Not established	Not established	30 mg/m3 STEL [VLCT] (restrictive limit); 10 ppm STEL [VLCT] (restrictive limit)	Not established	Not established
	MAKs	Not established	Not established	Not established	5 ppm TWA MAK; 15 mg/m3 TWA MAK	Not established
	Ceilings	900 mg/m3 Ceiling	Not established	Not established	200 ppm Peak; 600 mg/m3 Peak	Not established
2-Butanone (78-93-3)	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)
		STEL	S	Not es	Not established		ablished	300 ppm 3 [VLCT] (re limit); 900 STEL [VL (restrictive	estrictive mg/m3 CT]	Not established	Not established
		MAKs	3	Not es	tablished	Not esta	ablished	Not estab	lished	200 ppm TWA MAK; 600 mg/m3 TWA MAK	Not established
Glass, oxide, chen as Glass wool fibe		TWAs	5	Not es	tablished	1 fiber/o as Glas fiber	s wool	Not estab	lished	Not established	Not established
					Exposure	Limits/	Guidelin	es (Con'	t.)		
	Result		Greece		India			ael		Italy	Japan
Silica, amorphous (7631-86-9)	TWAs	Not e	stablishe	10 mg/m3 TWA (total		0.3 mg/m3 (airborne o otherwise classified) mg/m3 TV (respirable	e dust no e d); 0.1 WA		olished	Not established	
Formamide, N,N-	TWAs		n TWA; n3 TWA	15	Not establishe	ed	10 ppm TWA		5 ppm TWA; 15 mg/m3 TWA		10 ppm OEL; 30 mg/m3 OEL
dimethyl- (68-12-2)	STELs		om STEL 13 STEL	.; 30	Not established		Not established to		10 ppm STEL Breve termine; 30 mg/m3 STEL Breve termine		Not established
2-Butanone	TWAs		pm TW/ ng/m3 T		200 ppm TWA mg/m3 TWA			ΓWA	200 ppm TWA	TWA; 600 mg/m3	200 ppm OEL; 590 mg/m3 OEL
(78-93-3)	STELs		pm STE ng/m3 S		300 ppm STE mg/m3 STEL			300 ppm STEL		STEL Breve 900 mg/m3 STEL mine	Not established
Glass, oxide, chemicals as Glass wool fiber	TWAs	Not e	1 fiber/cm3 TWA (respirable fibers: length >5 μm, aspect ratio >=3:1, except asbestiform minerals, listed under Synthetic vitreous fibers) as Glass wool fiber		e fibers: µm, io >=3:1, poestiform listed thetic pers) wool fiber	Not estal	plished _	1 fiber/cm3 OEL as Glass wool fiber			
					Exposure	Limits/	Guidelin	es (Con'	t.)		
	Res	sult	Koı	rea	Malay			erlands		NIOSH	OSHA
Silica, amorphous (7631-86-9)	TWAs	3			Not establis	hed	Not estab	lished	6 mg/m	n3 TWA	Not established
Formamide, N,N-dimethyl-(68-12-2)	TWAs TWAS 10 ppm T (Serial No 077); 30 mg/m3 TV		No. I TWA	10 ppm TW. mg/m3 TWA		15 mg/m3	TWA	10 ppm TWA	n TWA; 30 mg/m3	10 ppm TWA; 30 mg/m3 TWA	
	STEL	s	Not esta	blishe	d Not establis	hed	30 mg/m3	STEL	Not est	ablished	Not established
2-Butanone	TWAs	6	200 ppn	n TWA	200 ppm TV	VA; 590	590 mg/m	3 TWA	200 pp	m TWA; 590	200 ppm TWA;

(78-93-3)		228) mg/r	rial No.); 590 m3 TWA rial No.)	mg/m3 TWA				mg/m3 TWA	590 mg/m3 TWA	
	STELs	(Ser 228) mg/r	ppm STEL ial No.); 885 m3 STEL ial No.)	Not establish	ned	900 mg/m3 STE	L	300 ppm STEL; 885 mg/m3 STEL	Not established	
Glass, oxide, chemicals	TWAs	TWA No.	ng/m3 A (Serial 007) Glass wool	1 fiber/cm3 (respirable filength >5 µn aspect ratio as determine the membral method at 40 450X magnit [4-mm object using phase-contrast illumination, under Syntheyitreous fiber (respirable) 1	bers: n, >=3:1, ed by ne filter 00- fication tive], -	2 fibers/cm3 MA TGG as Glass wool fib		3 fiber/cm3 TWA (fibers <= 3.5 μm in diameter and >= 10 μm in length); 5 mg/m3 TWA (total) as Glass wool fiber	Not established	
				as Glass wo	ol fiber					
				•		Guidelines (C	on't.)			
	Res	ult	Sing	japore		outh Africa		Spain		
Silica, amorphous (7631-86-9)	TWAs		Not establi	shed	inhalab	n3 TWA (total ble dust); 3 TWA (respirable	Not e	stablished		
	TWAs		10 ppm PE PEL	L; 30 mg/m3	10 ppn mg/m3			n TWA [VLA-ED] (indicative i3 TWA [VLA-ED] (indicative		
Formamide, N,N-dimethyl-	STELs		Not establi	shed	20 ppn mg/m3	STEL; 60 STEL	10 pp	om STEL [VLA-EC]; 30 mg/i	m3 STEL [VLA-EC]	
(68-12-2)	Biologic Limit Values (BLV)		Not establi	shed	Not est	tablished	40 m	g/L urine end of shift N-Met g/L urine start of last shift o /l-S-(N-methylcarbamoyl) c	f workweek N-	
2-Butanone	STELs		300 ppm S mg/m3 STI			00 ppm STEL; 885 300 ppm STEL EC]		ppm STEL [VLA-EC]; 900 m	m STEL [VLA-EC]; 900 mg/m3 STEL [VLA-	
(78-93-3)	TWAs		200 ppm P mg/m3 PEI		200 pp mg/m3	m TWA; 590 TWA		ppm TWA [VLA-ED] (indicat 3 TWA [VLA-ED] (indicativ		
Glass, oxide, chemicals	TWAs		10 mg/m3 as Glass w		Not est	tablished	orient earth 18% and u fibers deter 450X contra fibers	,	aline and Alkali- MgO+BaO] above commercialization, CH. Respirable c) >=3:1, as er method at 400- tive], using phase-	
1			1				as Gl	ass wool fiber		

Exposure Control Notations

China

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

Czech Republic

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

Denmark

- •Formamide, N,N-dimethyl- (68-12-2): Skin Notations: (Potential for cutaneous absorption)
- •2-Butanone (78-93-3): Skin Notations: (Potential for cutaneous absorption)

Greece

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

Italy

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

Netherlands

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

Canada Ontario

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

Canada Quebec

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

France

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

Spain

•Formamide, N,N-dimethyl- (68-12-2): Reproductive Toxins: (known or suspected human reproductive toxin with classification from animal data) | Skin: (skin - potential for cutaneous exposure)

ACGIH

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

Germany TRGS

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

Germany DFG

- •Formamide, N,N-dimethyl- (68-12-2): **Pregnancy:** (risk to embryo/fetus probable) | **Skin:** (skin notation)
- •2-Butanone (78-93-3): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to) | **Skin:** (skin notation)
- •Silica, amorphous (7631-86-9): **Pregnancy:** (no risk to embryo/fetus if exposure limits adhered to)

Exposure Limits Supplemental

Czech Republic

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

OSHA

•Silica, amorphous (7631-86-9): Mineral Dusts: (20 mppcf TWA; (80)/(% SiO2) mg/m3 TWA)

ACGIH

- •Formamide, N,N-dimethyl- (68-12-2): BEIs: (15 mg/L Medium: urine Time: end of shift Parameter: N-Methylformamide; 40 mg/L Medium: urine Time: prior to last shift of workweek Parameter: N-Acetyl-S-(N-methylcarbamoyl) cysteine (semi-quantitative)) | TLV Basis - Critical Effects: (liver damage)
- •2-Butanone (78-93-3): BEIs: (2 mg/L Medium: urine Time: end of shift Parameter: MEK (nonspecific)) | TLV Basis Critical Effects: (CNS and PNS impairment; upper respiratory tract irritation)

Germany TRGS

- •Formamide, N,N-dimethyl- (68-12-2): BELs: (35 mg/L Medium: urine Time: end of shift Parameter: N,N-Methylformamide plus N-Hydroxymethyl-Nmethylformamide)
- •2-Butanone (78-93-3): BELs: (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.

Revision Date: 3/November/2021

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

= Biological Exposure Indices

= 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

= 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	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)	рН	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

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

Section 11 - Toxicological Information

11.1 Information on toxicological effects

		Components		
Formamide, N,N- dimethyl- (<0.1%)	68-12-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • 2000 mg/kg; Inhalation-Rat LC50 • 1948 ppm 4 Hour(s); Skin-Rabbit LD50 • 4720 mg/kg; Irritation: Eye-Rabbit • 100 mg-Rinse • Severe irritation; Skin-Human • 100 % 24 Hour(s) • Mild irritation; Multi-dose Toxicity: Ingestion/Oral-Rat TDLo • 9 mL/kg 12 Week(s)-Intermittent; Liver:Hepatitis (hepatocellular necrosis), diffuse; Liver:Changes in liver weight; Biochemical:Enzyme inhibition, induction, or change in blood or tissue levels:Phosphatases; Mutagen: Cytogenetic analysis • Inhalation-Human • 12300 μg/m³ 1 Year(s); Reproductive: Inhalation-Rat TCLo • 4 mg/m³ 4 Hour(s)(1-19D preg); Reproductive Effects:Effects on Fertility:Pre-implantation mortality; Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Effects on Embryo or Fetus:Fetal death; Tumorigen / Carcinogen: Inhalation-Rat TCLo • 200 ppm 6 Hour(s) 104 Week(s)-Intermittent; Liver:Tumors; Tumorigenic:Neoplastic by RTECS criteria		
2-Butanone (< 0.1%) Acute Toxicity: Ingestion/Oral-Rat LD50 • 2737 mg/kg; Inhalation-Rat LC50 • 23500 mg/m³ 8 Hour(s); Inhalation-Human TCLo • 1000 mg/m³; Sense Organs and Special Senses:Eye:Conjunctive irr Lungs, Thorax, or Respiration:Cough; Skin-Rabbit LD50 • 6480 mg/kg; Irritation: Eye-Human • 350 ppm; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 1000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects:Effects of Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Development Abnormalities:Musculoskeletal system				
Glass, oxide, chemicals (30% TO 65%)	65997- 17-3	Multi-dose Toxicity: Inhalation-Rat TCLo • 16 mg/m³ 6 Hour(s) 13 Week(s)-Intermittent; Lungs, Thorax, or Respiration:Other changes		

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

• May cause mild irritation.

(Immediate) Chronic

• No data available.

(Delayed)

Eye

Acute

• May cause mild eye irritation (dust).

(Immediate)

Chronic

• No data available.

(Delayed)

Ingestion **Acute**

• No data available.

(Immediate)

No data available.

Chronic (Delayed)

Mutagenic **Effects**

Effects

No data available.

Carcinogenic

• 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.

Effects

Reproductive • 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 • DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All

waste

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
- 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
- None specified.
- 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					
Formamide, N,N-dimethyl-	68-12-2	Yes	Yes	Yes					
Silica, amorphous	7631-86-9	Yes	Yes	Yes					
Glass, oxide, chemicals	65997-17- 3	Yes	No	Yes					

	Inventory								
Component	CAS	Canada D	OSL Canada N	IDSL China	EU EIN	ECS EU ELNICS			
2-Butanone	78-93-3	Yes	No	Yes	Yes	No			
Formamide, N,N- dimethyl-	68-12-2	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.)								
Componer	ıt	CAS	Japan ENC	S Ko	rea KECL	TSCA			
2-Butanone		78-93-3	Yes	Yes		Yes			

Formamide, N,N-dimethyl-	68-12-2	Yes	Yes	Yes
Silica, amorphous	7631-86-9	Yes	Yes	Yes
Glass, oxide, chemicals	65997-17-3	Yes	Yes	Yes

Australia

1 2	۱h	0	r
	ıN	·	

Labor Australia - Work Health and Safety Regulations - Hazardous Substances Requiri	ing Hoalth Monitorin	
•Formamide, N,N-dimethyl-	68-12-2	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	00001-11-0	Not Listed
Australia - High Volume Industrial Chemicals List		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	140t Elotod
•Silica, amorphous	7631-86-9	
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber	00001-11-0	Not Listed
Australia - List of Designated Hazardous Substances - Classification		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	Xn, Xi Repr.Cat.2 R61, R20/21, R36
•2-Butanone	78-93-3	F, Xi R11, R36, R66, R67
•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 Pollutent Inventory (NRI) Substance List		
Australia - National Pollutant Inventory (NPI) Substance List •Formamide, N,N-dimethyl-	68-12-2	Not Listed
*Formamide, N,N-dimetriyi-	00-12-2	
•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		
•Formamide, N,N-dimethyl-	68-12-2	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
Australia - Priority Existing Chemical Program		
•Formamide, N,N-dimethyl-	68-12-2	Candidate chemical
•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		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	B2, D2B
		Uncontrolled product
•Silica, amorphous	7631-86-9	according to WHMIS
		classification criteria
•Glass, oxide, chemicals	65997-17-3	Not Listed

Uncontrolled product

•Glass, oxide, chemicals as Glass wool fiber

		according to WHMIS classification criteria (listed
		under Glass wool); D2A (listed under Mineral wool
Canada - WHMIS - Ingredient Disclosure List		fiber)
•Formamide, N,N-dimethyl-	68-12-2	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		
Formation MAN Provided	00.40.0	Priority Substance List 2
•Formamide, N,N-dimethyl-	68-12-2	(substance not considered toxic)
•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		Vn. D00/04 Vi. D06
•Formamide, N,N-dimethyl-	68-12-2	Xn; R20/21 Xi; R36 Repr.Cat.2; R61
•2-Butanone	78-93-3	F; R11 Xi; R36 R66 R67
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous •Glass, oxide, chemicals	7631-86-9 65997-17-3	Not Listed Not Listed
•Glass, oxide, chemicals as Glass wool fiber	03997-17-3	Not Listed
EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	T R:61-20/21-36 S:53-45
•2-Butanone	78-93-3	F Xi R:11-36-66-67 S:(2)-9-
*2-butanone	70-93-3	16
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
 Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations 		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	E
•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		
•Formamide, N,N-dimethyl-	68-12-2	S:53-45
•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		
•Formamide, N,N-dimethyl-	68-12-2	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 Carcinogenic Substances		
•Formamide, N,N-dimethyl-	68-12-2	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 Fibers		
•Formamide, N,N-dimethyl-	68-12-2	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		
•Formamide, N,N-dimethyl-	68-12-2	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		
•Formamide, N,N-dimethyl-	68-12-2	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		
•Formamide, N,N-dimethyl-	68-12-2	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 - Water Classification (VwVwS) - Annex 1		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Listed
		ID Number 849, not
•Silica, amorphous	7631-86-9	considered hazardous to water
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	ID Number 83, hazard class 1 - low hazard to waters
•2-Butanone	78-93-3	ID Number 150, hazard class 1 - low hazard to waters
•Cilica amorphous	7631-86-9	Not Listed
•Silica, amorphous	65997-17-3	Not Listed
•Glass, oxide, chemicals	00997-17-3	Not Listed Not Listed
•Glass, oxide, chemicals as Glass wool fiber Germany - Water Classification (VwVwS) - Annex 3		NOT LISTER
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Listed
*2-วินเลทิงกิธ	10-33-3	ID Number 849, not
•Silica, amorphous	7631-86-9	considered hazardous to water

•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	00.40.0	NI-41 i-4- d
•Formamide, N,N-dimethyl-	68-12-2	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	60 40 0	Not Listed
•Formamide, N,N-dimethyl- •2-Butanone	68-12-2	Not Listed
	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		
•Formamide, N,N-dimethyl-	68-12-2	(listed under Dimethyl
•		formamide)
•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
•Glass, oxide, chemicals as Glass wool fiber		manufacturing or processing glass, rock, or slag fibers [or
-Glass, Oxide, Chefficals as Glass wool libel		other mineral derived fibers
		of average diameter 1 µm or
		less)
U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		•
•Formamide, N,N-dimethyl-	68-12-2	100 lb final RQ; 45.4 kg final
r officialities, regit difficulty.	00 12 2	RQ
•2-Butanone	78-93-3	5000 lb final RQ; 2270 kg
	7004.00.0	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	60 40 0	Not Listed
•Formamide, N,N-dimethyl-	68-12-2 78-93-3	Not Listed
•2-Butanone		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 •Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Listed
•Silica, amorphous	76-93-3 7631-86-9	Not Listed
	65997-17-3	
•Glass, oxide, chemicals	00991-11-3	Not Listed Not Listed
 Glass, oxide, chemicals as Glass wool fiber U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs 		INULLISIEU
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Listed
	76-93-3 7631-86-9	Not Listed
•Silica, amorphous		
•Glass, oxide, chemicals	65997-17-3	Not Listed Not Listed
 Glass, oxide, chemicals as Glass wool fiber U.S CERCLA/SARA - Section 313 - Emission Reporting 		INULLISIEU
0.3 CENCEMBARA - Section 313 - Emission Reporting		

•Formamide, N,N-dimethyl-	68-12-2	1.0 % de minimis
O Distances	70.00.0	concentration
•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		
•Formamide, N,N-dimethyl-	68-12-2	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	x VII	
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•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		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•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 Constitu		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Elotod
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
	03331-11-3	
*Class avide chamicals as Class wool tibor		
•Glass, oxide, chemicals as Glass wool fiber	sal Treatment Star	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers		ndards
	sal Treatment Star 68-12-2	ndards Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers		ndards Not Listed 0.28 mg/L (wastewater); 36
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone 	68-12-2 78-93-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater)
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous 	68-12-2 78-93-3 7631-86-9	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals 	68-12-2 78-93-3 7631-86-9 65997-17-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater)
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Tourseless 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
 U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Tourseless 	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed
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U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O	ndards Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159
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U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Foxic Wastes & Or	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste)
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Foxic Wastes & Or	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste)
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed
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U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universe *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List *Formamide, N,N-dimethyl- *2-Butanone	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous Glass, oxide, chemicals	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed Not Listed Vot Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed Not Listed Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Univers *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Wate *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous *Glass, oxide, chemicals U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely T Characteristics *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous United States - California Environment U.S California - Proposition 65 - Carcinogens List *Formamide, N,N-dimethyl- *2-Butanone *Silica, amorphous Glass, oxide, chemicals	68-12-2 78-93-3 7631-86-9 65997-17-3 er Monitoring 68-12-2 78-93-3 7631-86-9 65997-17-3 Toxic Wastes & O 68-12-2 78-93-3 7631-86-9	Not Listed 0.28 mg/L (wastewater); 36 mg/kg (nonwastewater) Not Listed Not Listed Not Listed Not Listed Not Listed ther Hazardous Not Listed waste number U159 (Ignitable waste, Toxic waste) Not Listed Not Listed Vot Listed

 Formamide, N,N-dimethyl- 2-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber U.S California - Proposition 65 - Maximum Allowable Dose Levels (MADL) 	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber U.S California - Proposition 65 - No Significant Risk Levels (NSRL)	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber U.S California - Proposition 65 - Reproductive Toxicity - Female	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber U.S California - Proposition 65 - Reproductive Toxicity - Male	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed Not Listed Not Listed
United States - Pennsylvania		
Labor U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals	68-12-2 78-93-3 7631-86-9 65997-17-3	Not Listed Not Listed Not Listed
 U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances Formamide, N,N-dimethyl- 2-Butanone Silica, amorphous 	68-12-2 78-93-3 7631-86-9	Not Listed Not Listed Not Listed

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

15.3 Other Information

•Glass, oxide, chemicals

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

65997-17-3 Not Listed

H332 - Harmful if inhaled

R10 - Flammable.

R20/21 - Harmful by inhalation and in contact with skin.

Last Revision Date
Preparation Date

- 15/July/2021
- 27/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.