

# Safety Data Sheet

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

### 1.1 Product identifier

Product Name
• N4800-20 Prepreg
Synonyms
• N4800-20 SI® Prepreg

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

Relevant identified use(s)

• Prepreg for consumer and industrial electronics.

Use(s) advised against

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

contact

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

North America

Manufacturer AGC Multi Material

<u>Asia</u> <u>Europe</u> terial AGC Multi Material Singapore AGC M

America, Inc. PTE, Ltd

ti Material Singapore AGC Multi Material Europe S.A.

1420 W. 12<sup>th</sup> Place Tempe, AZ 85281

**United States** 

Jurong, Singapore 629520

4 Gul Crescent

Route des Usines, BP25 65303, Lannemezan, Cedex, France

Cedex, Fi

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

# 1.4 Emergency telephone number

1-480-967-5600- (8AM -

+65 6861 7117 - Asia

+33-5-62-98-52-90- Europe

(8AM-4PM M-F)

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** 

• No label element(s) required.

statements DSD/DPD

Risk phrases • No label element(s) required.

### 2.3 Other Hazards

CLP • This material is exempt from CLP/REACH obligations as an article as specified in REACH

(1907/2006) and related ECHA guidance.

• 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

• 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

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**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.

Format: EU CLP/REACH, EU DSD/DPD, WHMIS, and OSHA HCS 2012 Page 2 of 24

# 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	<1%					
	EU Index:606-002-00-3						
	CAS:68-12-2						
Formamide, N,N-dimethyl-	<b>EC Number:</b> 200-679-5	<1%					
•	EU Index:616-001-00-X						
Cilico amarahaya	CAS:7631-86-9	7% TO 15%					
Silica, amorphous	EC Number:231-545-4	7 % 10 15%					
P staged Energy regin mixture	CAS:NA	20% TO 50%					
B-staged Epoxy resin mixture	EC Number:NA	20% 10 50%					
Class svide shaminals	CAS:65997-17-3	30% TO 65%					
Glass, oxide, chemicals	<b>EC Number:</b> 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.

Media

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

Unsuitable

• Do not use straight streams.

**Extinguishing Media** 

# 5.2 Special hazards arising from the substance or mixture

**Unusual Fire and Explosion Hazards**  • Hazardous polymerization 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.

Format: EU CLP/REACH, EU DSD/DPD, WHMIS, and OSHA HCS 2012 Original GHS Format Preparation Date: 27/May/2015

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# **Section 8 - Exposure Controls/Personal Protection**

# 8.1 Control parameters

	_	Exposure	Limits/Guideline	s		
	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	(listed under	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)
		Exposure I im	∟ its/Guidelines (C	con't )		Inder
	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-dimethyl-	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
(68-12-2)	STELs	Not established	Not established	20 ppm STEL;	Not established	20 ppm STEL;

				60 mg/m3 STEL		60 mg/m3 STEL
2-Butanone	STELs	300 ppm STEL	300 ppm STEL; 88 mg/m3 STEL	300 ppm STEL; 885 mg/m3 STEL	300 ppm STEL	300 ppm STEL; 885 mg/m3 STEL
(78-93-3)	TWAs	200 ppm TWA	200 ppm TWA; 59 mg/m3 TWA	200 ppm TWA; 590 mg/m3 TWA	200 ppm TWA	200 ppm TWA; 590 mg/m3 TWA
Glass, oxide, chemicals as Glass wool fiber	TWAs	1 fiber/cm3 TWA (respirable fibers: length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method at 400-450X magnification [4-mm objective], using phase-contrast illumination, listed under Synthetic vitreous fibers) as Glass wool fiber	(fibers >5 µm with	μm); 5 mg/m3 TWA (total mass)	the membrane	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
					fiber	
		Exposure Lim	its/Guidelines (	Con't.) Canada		
	Result	Canada Ontario	Canada Quebec	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-dimethyl-	STELs	Not established	Not established		20 ppm STEL; 60 mg/m3 STEL	40 mg/m3 STEL
(68-12-2)	TWAs	10 ppm TWA	10 ppm TWAEV; 30 mg/m3 TWAEV		10 ppm TWA; 30 mg/m3 TWA	20 mg/m3 TWA
2-Butanone	STELs	300 ppm STEL	100 ppm STEV; 300 mg/m3 STEV		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; 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	1 fibre/cm3 TWAEV (respirable, listed under Fibres- Artificial Vitreous	(respirable fibers, listed under	30 mppcf TWA (dust or fiberous); 10 mg/m3 TWA (dust or fiberous)	Not established

		method at 400-	ation as Glass wood fiber ted	as Glass wool	as Glass wool fiber	
		Exposure	Limits/Guidelin	es (Con't.)		
	Result	Czech Republic		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]	Not established	200 ppm TWA AGW (The risk of damage to the embryo or fetus

								(restrictive	e limit)		can be excluded when AGW and BGW values are observed, exposure factor 1); 600 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 1)
			STELs	Not	established	Not esta	ablished	300 ppm 3 [VLCT] (re limit); 900 STEL [VL (restrictive	estrictive mg/m3 CT]	Not established	Not established
			MAKs	Not	established	Not esta	ablished	Not estab	lished	200 ppm TWA MAK; 600 mg/m3 TWA MAK	Not established
Glass, oxide, chen wool fiber	nicals a	s Glas	S TWAs	Not	established	1 fiber/o as Glas fiber	cm3 TWA	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 es	stablished		10 mg/m3 TW dust)	/A (total	0.3 mg/m3 (airborne o otherwise classified) mg/m3 TV (respirable	dust no ; 0.1 VA	Not esta	blished	Not established
Formamide, N,N-	TWAs		n TWA; 15 3 TWA	١	Not establishe	ed	10 ppm T\	WA	5 ppm T\ TWA	WA; 15 mg/m3	10 ppm OEL; 30 mg/m3 OEL
dimethyl- (68-12-2)	STELs		m STEL; 3 3 STEL	<sup>30</sup> N	Not established		Not establ			STEL Breve 30 mg/m3 STEL rmine	Not established
2-Butanone	TWAs		pm TWA; ng/m3 TW <i>A</i>		200 ppm TWA; 590 mg/m3 TWA		200 ppm 7	TWA TWA		TWA; 600 mg/m3	200 ppm OEL; 590 mg/m3 OEL
(78-93-3)	STELs		pm STEL; ng/m3 STE		300 ppm STEL; 885 mg/m3 STEL		300 ppm STEL terr		300 ppm STEL Breve termine; 900 mg/m3 STEL Breve termine		Not established
Glass, oxide, chemicals as Glass wool fiber	emicals as TWAs Not established Not		Not establishe	ed	1 fiber/cm (respirable length >5 aspect rat except asl minerals, under Syn vitreous fil	e fibers:  µm,  io >=3:1,  bestiform  listed  athetic	Not esta	blished	1 fiber/cm3 OEL as Glass wool fiber		
							as Glass v	wool fiber			
					Exposure				t.)		
	Res	ult	Korea		Malay		Neth	erlands		NIOSH	OSHA
Silica, amorphous (7631-86-9)	TWAs	. Ir	Not establi	ishar	Not establis	hed	Not estab	lished	6 ma/n	n3 TWA	Not established

dimethyl- (68-12-2)			077) mg/r	m3 TWA ial No.	mg/m3 TWA	•			TWA	mg/m3 TWA	
	ST	ELs	Not	established	Not establish	ned	30 mg/m3 STEL		Not established	Not established	
TV 2-Butanone		/As	(Ser 228) mg/r	m3 TWA ial No.	200 ppm TW mg/m3 TWA		590 mg/m3 TWA	A.	200 ppm TWA; 590 mg/m3 TWA	200 ppm TWA; 590 mg/m3 TWA	
(78-93-3)	ST	ELs	(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	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)  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)			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						
	<u> </u>				as Glass wo Exposure I		Guidelines (C	on't.			
		Resu	ılt		apore		outh Africa	<u> </u>	Spain		
Silica, amorphous (7631-86-9)		TWAs		Not establis	shed	inhalab	n3 TWA (total le dust); 3 TWA (respirable	Not e	Not established		
		TWAs		10 ppm PE PEL	L; 30 mg/m3				5 ppm TWA [VLA-ED] (indicative limit value); 15 mg/m3 TWA [VLA-ED] (indicative limit value)		
Formamide, N,N-		STELs		Not establis	shed	20 ppm mg/m3	om STEL; 60		10 ppm STEL [VLA-EC]; 30 mg/m3 STEL [VLA-EC]		
dimethyl- (68-12-2)		Biologic Limit Values (BLV)	al	Not establis	shed	Not est	ablished	40 m	15 mg/L urine end of shift N-Methylformamide (2); 40 mg/L urine start of last shift of workweek N- Acetyl-S-(N-methylcarbamoyl) cysteine (5,S)		
2-Butanone		STELs		300 ppm S mg/m3 STE		300 pp mg/m3	m STEL; 885 STEL	300 p EC]	ppm STEL [VLA-EC]; 900 m	g/m3 STEL [VLA-	
(78-93-3)		TWAs		200 ppm P mg/m3 PEI			m TWA; 590 TWA		ppm TWA [VLA-ED] (indicat 3 TWA [VLA-ED] (indicative		
Glass, oxide, chemicals  TWAS  mg/m3 PEL  mg/m3 TWA  10 mg/m3 PEL  Not established		ablished	orient earth 18% and u fibers deter	r/cm3 TWA [VLA-ED] (Fibe tation, with a content in Alka oxide [Na2O+K2O+CaO+N in weight; manufacturing, co ise restrictions under REAC is: length >5 µm, aspect ratio mined by the membrane filt magnification [4-mm object	aline and Alkali- MgO+BaO] above commercialization, CH. Respirable c) >=3:1, as er method at 400-						

		contrast illumination, listed under Synthetic vitreous fibers)
		as Glass 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)

### **Exposure Limits Supplemental**

#### Czech Republic

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

#### **OSHA**

•N/A

### **ACGIH**

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

#### **Germany TRGS**

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

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# **Personal Protective Equipment**

Respiratory

• In case of insufficient ventilation, wear suitable respiratory equipment. Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Eye/Face

• Wear chemical splash safety goggles.

Skin/Body

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

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

#### Key to abbreviations

ACGIH = American Conference of Governmental Industrial Hygiene

= Biological Exposure Indices

MAK = Maximale Arbeitsplatz Konzentration is the maximum permissible concentration

NIOSH = National Institute of Occupational Safety and Health OSHA = Occupational Safety and Health Administration

= 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

= 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, semi-solid sheet with slight ketone odor
Color	Tan or light yellow	Odor	Ketone
Odor Threshold	Data lacking		
General Properties			
Boiling Point	Not relevant	Melting Point	Data lacking
Decomposition Temperature	>200 C(392 F)	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.)	<2%
VOC (Vol.)	<2%	Volatiles (Wt.)	<2%
Volatiles (Vol.)	<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.

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# **Section 10: Stability and Reactivity**

# 10.1 Reactivity

• No dangerous reaction known under conditions of normal use.

# 10.2 Chemical stability

• Stable under normal temperatures and pressures.

# 10.3 Possibility of hazardous reactions

• Hazardous polymerization will occur at elevated temperatures.

### 10.4 Conditions to avoid

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

# 10.5 Incompatible materials

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

# 10.6 Hazardous decomposition products

• 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							
	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%)	78-93-3	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 irritation; Lungs, Thorax, or Respiration:Cough; Skin-Rabbit LD50 • 6480 mg/kg; Irritation: Eye-Human • 350 ppm; Skin-Rabbit • 500 mg 24 Hour(s) • Moderate irritation; Reproductive: Inhalation-Rat TCLo • 1000 ppm 7 Hour(s)(6-15D preg); Reproductive Effects:Effects on Embryo or Fetus:Fetotoxicity (except death, e.g., stunted fetus); Reproductive Effects:Specific Developmental 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 (Immediate)

May cause mild irritation.

Chronic

• No data available.

(Delayed)

Eye

Acute

• May cause mild eye irritation (dust).

(Immediate)

No data available.

Chronic (Delayed)

Ingestion

Acute

• No data available.

(Immediate) Chronic

No data available.

(Delayed) Mutagenic

No data available.

**Effects** 

Carcinogenic Effects

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

Reproductive Effects No data available.

### Key to abbreviations

LC = Lethal Concentration

LD = Lethal Dose

TC = Toxic Concentration

TD = Toxic Dose

# **Section 12 - Ecological Information**

# 12.1 Toxicity

Not expected to be harmful to aquatic life.

# 12.2 Persistence and degradability

• Material data lacking.

# 12.3 Bioaccumulative potential

· Material data lacking.

# 12.4 Mobility in Soil

• Material data lacking.

### 12.5 Results of PBT and vPvB assessment

• No PBT and vPvB assessment has been conducted.

### 12.6 Other adverse effects

No studies have been found.

# **Section 13 - Disposal Considerations**

### 13.1 Waste treatment methods

# Product waste

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

# Packaging waste

• Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

# **Section 14 - Transport Information**

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

### 14.6 Special precautions for user

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 DSL Canada NDSL China EU EINECS 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	65997-1 <sup>3</sup>	7- Yes		No	Yes		Yes		No
Inventory (Con't.)									
Component CAS			Japan ENCS	Korea KECL		CL	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 - Work Health and Safety Regulations - Hazardous Substances Requiring Health Monitoring

# **Australia**

### Labor

radical and tronk round and durity regulations real adds dubotanoss requiring .	ioditii iiioiiitoiii	9
•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 - High Volume Industrial Chemicals List		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
Australia - List of Designated Hazardous Substances - Classification		
•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	03331-11-3	Not Listed
		Not Listed
Environment		
Australia - National Pollutant Inventory (NPI) Substance List		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•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

Canada - WHMIS - Classifications of Substances		
•Formamide, N,N-dimethyl- •2-Butanone	68-12-2 78-93-3	Not Listed B2, D2B
•Silica, amorphous	7631-86-9	Uncontrolled product 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 fiber)
Canada - WHMIS - Ingredient Disclosure List		,
•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		
•Formamide, N,N-dimethyl-	68-12-2	Priority Substance List 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
Furana		
Europe		
Other EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification		
EU - CLP (12/2/2000) - Ailliex VI - Table 3.2 - Classification		
	68-12-2	Xn; R20/21 Xi; R36
•Formamide, N,N-dimethyl-	68-12-2	Repr.Cat.2; R61
•Formamide, N,N-dimethyl- •2-Butanone	78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous	78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals	78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber	78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits	78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone	78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 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 EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed 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 EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed
•Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-
•Formamide, N,N-dimethyl-  •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl- •2-Butanone	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16
•Formamide, N,N-dimethyl-  •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl- •2-Butanone  •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals •Glass, oxide, chemicals	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 Not Listed
•Formamide, N,N-dimethyl-  •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl- •2-Butanone  •Silica, amorphous •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 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  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl-  •2-Butanone  •Silica, amorphous •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations •Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 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  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits •Formamide, N,N-dimethyl- •2-Butanone •Silica, amorphous •Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling •Formamide, N,N-dimethyl- •2-Butanone  •Silica, amorphous •Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations •Formamide, N,N-dimethyl- •2-Butanone	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 68-12-2 78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 Not Listed
Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals  Glass, oxide, chemicals  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 Not Listed
Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals  Glass, oxide, chemicals  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 68-12-2 78-93-3	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 Not Listed
Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals  Glass, oxide, chemicals  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 68-12-2 78-93-3 7631-86-9	Repr.Cat.2; R61 F; R11 Xi; R36 R66 R67 Not Listed T R:61-20/21-36 S:53-45 F Xi R:11-36-66-67 S:(2)-9-16 Not Listed

•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		. 101 2.010 2
•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	00.40.0	
•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
*2-butanone	10-93-3	
•Silica, amorphous	7631-86-9	ID Number 849, not considered hazardous to
-Gilica, amorprious	7001-00-9	water
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals as Glass wool fiber	1200. 11 0	Not Listed
Germany - Water Classification (VwVwS) - Annex 2 - Water Hazard Classes		Trot Listed
	60.40.0	ID Number 83, hazard class
•Formamide, N,N-dimethyl-	68-12-2	1 - low hazard to waters
		ID Number 150, hazard
•2-Butanone	78-93-3	class 1 - low hazard to
		waters

	•Silica, amorphous	7631-86-9	Not Listed
	•Glass, oxide, chemicals	65997-17-3	Not Listed
	•Glass, oxide, chemicals as Glass wool fiber		Not Listed
	Germany - Water Classification (VwVwS) - Annex 3		
	•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		Not Listed
Un	nited States		
	b		
Lai	bor U.S OSHA - Process Safety Management - Highly Hazardous Chemicals		
	•Formamide, N,N-dimethyl-	68-12-2	Not Listed
	•2-Butanone	78-93-3	Not Listed
	•Silica, amorphous	76-35-5 7631-86-9	Not Listed
		65997-17-3	Not Listed
	•Glass, oxide, chemicals •Glass, oxide, chemicals as Glass wool fiber	00997-17-3	Not Listed
	U.S OSHA - Specifically Regulated Chemicals		Not Listed
	•Formamide, N,N-dimethyl-	68-12-2	Not Listed
	•2-Butanone	78-93-3	Not Listed
	•Silica, amorphous	76-35-5 7631-86-9	Not Listed
	•Glass, oxide, chemicals	65997-17-3	Not Listed
	•Glass, oxide, chemicals as Glass wool fiber	03997-17-3	Not Listed
			Not Listed
	vironment		
Į	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 manufacturing or processing
•	Glass, oxide, chemicals as Glass wool fiber		glass, rock, or slag fibers [or
	Glass, Salas, Glorinado do Glass Wool libel		other mineral derived fibers
			of average diameter 1 μm or
			less)
ı	U.S CERCLA/SARA - Hazardous Substances and their Reportable Quantities		,
		68-12-2	100 lb final RQ; 45.4 kg final
	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 RQ
•		68-12-2 78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg
•	Formamide, N,N-dimethyl-	78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ
•	Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous	78-93-3 7631-86-9	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
•	PFormamide, N,N-dimethyl- 2-Butanone Silica, amorphous Glass, oxide, chemicals	78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed Not Listed
•	Formamide, N,N-dimethyl-  2-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber	78-93-3 7631-86-9	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
•	PFormamide, N,N-dimethyl-  2-Butanone  Silica, amorphous  Glass, oxide, chemicals  Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities	78-93-3 7631-86-9 65997-17-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ 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 CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ 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 CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 2-Butanone	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 2-Butanone  Silica, amorphous	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 2-Butanone Silica, amorphous Glass, oxide, chemicals	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  2-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 2-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  22-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 22-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  22-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 22-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl- 22-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 22-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Formamide, N,N-dimethyl- 22-Butanone	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed
	Formamide, N,N-dimethyl-  22-Butanone  Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Radionuclides and Their Reportable Quantities Formamide, N,N-dimethyl- 22-Butanone Silica, amorphous Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals Glass, oxide, chemicals as Glass wool fiber  U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs Formamide, N,N-dimethyl-	78-93-3 7631-86-9 65997-17-3 68-12-2 78-93-3 7631-86-9 65997-17-3	100 lb final RQ; 45.4 kg final RQ 5000 lb final RQ; 2270 kg final RQ Not Listed

•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs		
•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 CERCLA/SARA - Section 313 - Emission Reporting		
	00.40.0	1.0 % de minimis
•Formamide, N,N-dimethyl-	68-12-2	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		Trot Elotou
•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
	05997-17-5	
•Glass, oxide, chemicals as Glass wool fiber	/11	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix \		Not Listed
•Formamide, N,N-dimethyl-	68-12-2	
•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 Mo	onitoring	
•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 Constituen	nts	
•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
•Glass, oxide, chemicals as Glass wool fiber		Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal	<b>Treatment Sta</b>	ndards
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	0.28 mg/L (wastewater); 36 mg/kg (nonwastewater)
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water		Not Listed
•Formamide, N.N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	Not Elsted
	76-95-5 7631-86-9	Not Listed
•Silica, amorphous		
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely To: Characteristics	xic vvastes & U	ulei nazaruous
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
r ormaniao, ri, r-almottyr	00-12-2	waste number U159
•2-Butanone	78-93-3	(Ignitable waste, Toxic waste)
•Silica, amorphous	7631-86-9	Not Listed

# **United States - California**

### **Environment**

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

«Formamida N.M. dimethyl	68-12-2	Not Listed
•Formamide, N,N-dimethyl- •2-Butanone	78-93-3	Not Listed Not Listed
•Silica, amorphous	76-93-3 7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
•Glass, oxide, chemicals	00997-17-3	
•Glass, oxide, chemicals as Glass wool fiber		carcinogen, initial date 7/1/90 (inhalable and biopersistent)
U.S California - Proposition 65 - Developmental Toxicity		, ,
•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 California - Proposition 65 - Maximum Allowable Dose Levels (MADL)		
•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 California - Proposition 65 - No Significant Risk Levels (NSRL)		
•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 California - Proposition 65 - Reproductive Toxicity - Female	00.40.0	
•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 California - Proposition 65 - Reproductive Toxicity - Male	60 40 0	Not Listed
•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
United States - Pennsylvania		
Labor		
U.S Pennsylvania - RTK (Right to Know) - Environmental Hazard List		
•Formamide, N,N-dimethyl-	68-12-2	Not Listed
•2-Butanone	78-93-3	
•Silica, amorphous	7631-86-9	Not Listed
•Glass, oxide, chemicals	65997-17-3	Not Listed
U.S Pennsylvania - RTK (Right to Know) - Special Hazardous Substances	00.40.0	NI_4   :-4
•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

# 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

# 15.3 Other Information

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

### **Section 16 - Other Information**

### Relevant Phrases (code & full text)

 H226 - Flammable liquid and vapour H312 - Harmful in contact with skin

H332 - Harmful if inhaled

R10 - Flammable.

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

**Last Revision Date** 

15/July/2021

**Preparation Date** 

27/May/2015

### Key to abbreviations NDA = No data available

# **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.

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