



# Meteorwave® Prepreg

## Safety Data Sheet

US-SDS according to the federal final rule of hazard communication revised on 2024 (HazCom 2024)  
Issue date: May 31 2015 Revision date: Feb.1 2026

### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
 Product name : Meteorwave® Prepreg / M-Ply™  
 Other means of identification : Meteorwave® 1000 Prepreg, Meteorwave® 1000NF Prepreg, Meteorwave® 2000 Prepreg, Meteorwave® 3000 Prepreg, Meteorwave® 3350 Prepreg, Meteorwave® 4000 Prepreg, Meteorwave® 4000M Prepreg, Meteorwave® 7000 Prepreg, Meteorwave® 8000 Prepreg, Meteorwave® 8350 Prepreg, Meteorwave® 8300 Prepreg, M-Ply™, Meteorwave® 5000 HF Prepreg, Meteorwave® 6000 HF Prepreg, Meteorwave M1 Prepreg

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Prepreg for consumer and industrial electronics.  
 Restrictions on use : Consumer uses, Food and feed area, Drinking water, Skin contact

#### 1.3. Supplier

AGC Multi Material America Inc. 1420 W 12th Place Tempe, AZ 85281, USA T +1-480-967-5600	AGC Multi Material Singapore Pte. Ltd. 4 Gul Crescent Jurong, Singapore 629520 T +65-6861-7117	AGC Multi Material Europe SASU 25 Rue du Lyonnais 69800 Saint-Priest, France T +33-6-15-75-21-53
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#### 1.4. Emergency telephone number

Emergency number :  
 AGC Multi Material America Inc. : +1-480-967-5600 (9am - 5pm MST) M - F  
 AGC Multi Material Singapore Pte. Ltd. : +65-6861-7117 (9am - 5pm SST) M - F  
 AGC Multi Material Europe SASU : +33-6-15-75-21-53 (9am - 5pm CET) M - F

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Not classified

#### 2.2. GHS Label elements, including precautionary statements

##### GHS US labeling

No labeling applicable

#### 2.3. Other hazards which do not result in classification

No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	Conc. (% w/w)
Glass, oxide, chemicals	CAS-No.: 65997-17-3	30 – 65

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Name	Product identifier	Conc. (% w/w)
Silica	CAS-No.: 7631-86-9	7 – 15
butanone, ethyl methyl ketone	CAS-No.: 78-93-3	< 1
cyclohexanone	CAS-No.: 108-94-1	< 1

The specific chemical component identities and/or the exact component percentages of this material may be withheld as trade secrets. This information is made available to health professionals, employees, and designated representatives in accordance with the applicable provisions of 29 CFR 1910.1200 (I)(1). Trace ingredients (if any) are present in < 1% concentration, (< 0.1% for potential carcinogens, mutagen, and reproductive toxicant, respiratory tract and skin sensitizers in addition to oral/ inhalation acute toxicant in category 1 and 2). None of the trace ingredients contribute significant additional hazards at the concentrations that may be present in this product. All pertinent hazard information has been provided in this document, per the requirements of the Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalents.

### SECTION 4: First-aid measures

#### 4.1. Description of first aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

#### 4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

#### 4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

### SECTION 5: Fire-fighting measures

#### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Adapt extinguishing media to the environment for surrounding fires.
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#### 5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

#### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.
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### 6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area.

### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.  
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Keep cool. Protect from sunlight.  
Packaging materials : Store always product in container of same material as original container.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Australia

Silicon dioxide (7631-86-9)	
Australia - Occupational Exposure Limits	
Local name	Silica – Amorphous: Fumed silica
OES TWA	2 mg/m <sup>3</sup> respirable dust
Remark (AU)	(a) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Regulatory reference	Workplace exposure standards for airborne contaminants (2024)

#### Canada

Glass, oxide, chemicals (65997-17-3)	
Canada (Alberta) - Occupational Exposure Limits	
Local name	Synthetic Vitreous Fibres: Glass Fibres Continuous filament
OEL TWA	1 fibers/cm <sup>3</sup> 5 mg/m <sup>3</sup> Total

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<b>Glass, oxide, chemicals (65997-17-3)</b>	
Notations and remarks	Occupational exposure limit is based on irritation effects and its adjustment to compensate for unusual work schedules is not required.
Regulatory reference	Alberta Regulation 87/2009 (Alberta Regulation 150/2020)
<b>Canada (Quebec) - Occupational Exposure Limits</b>	
Local name	Fibres-artificial vitreous mineral fibres - Fibrous glass, continuous filament
VEMP (OEL TWAEV)	1 fibers/cm <sup>3</sup>
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety
<b>Canada (British Columbia) - Occupational Exposure Limits</b>	
Local name	Synthetic Vitreous Fibres - Continuous filament glass fibres
OEL TWA	1 fibers/cm <sup>3</sup> 5 mg/m <sup>3</sup> Inhalable
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)
<b>Canada (Manitoba) - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter) 1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
<b>Canada (Newfoundland and Labrador) - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter) 1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
<b>Canada (Nova Scotia) - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter) 1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
<b>Canada (Ontario) - Occupational Exposure Limits</b>	
Local name	Continuous filament glass fibres (Synthetic Vitreous Fibres (Man Made Mineral Fibres))
OEL TWAEV	5 mg/m <sup>3</sup> (I - Inhalable fraction) 1 fiber/mL (F - Respirable fibres)
Regulatory reference	Ontario Occupational Exposure Limits under Regulation 833
<b>Canada (Prince Edward Island) - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)

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<b>Glass, oxide, chemicals (65997-17-3)</b>	
	1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Notations and remarks	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
	1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

### China & Hong Kong

<b>Silicon dioxide (7631-86-9)</b>	
<b>China - Occupational Exposure Limits</b>	
Local name	沉淀SiO <sub>2</sub> (白炭黑) # Precipitated silica dust
OEL PC-TWA	5 mg/m <sup>3</sup> 总尘
Regulatory reference	GBZ 2.1-2019

### European Union

<b>Glass, oxide, chemicals (65997-17-3)</b>	
<b>EU - Binding Occupational Exposure Limit (BOEL)</b>	
Local name	Refractory ceramic fibres: Glass, oxide, chemicals
BOEL TWA	0.3 fibers/mL
Regulatory reference	DIRECTIVE (EU) 2019/130 (amending Directive 2004/37/EC)
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
	1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

<b>Silicon dioxide (7631-86-9)</b>	
<b>Austria - Occupational Exposure Limits</b>	
Local name	Kieselsäuren, amorphe
MAK (OEL TWA)	4 mg/m <sup>3</sup> (E)
Regulatory reference	BGBl. II Nr. 156/2021

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<b>Silicon dioxide (7631-86-9)</b>	
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Amorfní SiO <sub>2</sub>
PEL (OEL TWA)	4 mg/m <sup>3</sup> (pro celkovou koncentraci)
Remark	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Räni (ränidioksiid) (amorfne)
OEL TWA	2 mg/m <sup>3</sup> Respireeritav fraktsioon
Remark	1 (Peentolm koosneb alla 2,5-mikromeetrise läbimõõduga osakestest, mis võivad koos sissehingatava õhuga jõuda kopsualveoolidesse)
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 02.04.2024, 13)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Kieselsäuren, amorphe
AGW (OEL TWA)	1 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	8(II)
Remark	AGS - Ausschuss für Gefahrstoffe; 2 - Kolloidale amorphe Kieselsäure (7631-86-9) einschließlich pyrogener Kieselsäure und im Nassverfahren hergestellter Kieselsäure (Fällungskieselsäure, Kieselgel); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m <sup>3</sup>
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	silikagel
OEL TWA	4 mg/m <sup>3</sup>
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 29/2024 z dne 4. 4. 2024 - Pravilnik o varovanju delavcev pred tveganji zaradi izpostavljenosti kemičnim snovem pri delu
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Silices amorphes [Dioxyde de silicium non cristallisé] / Kieselsäuren, amorphe [Diatomeenerde, Siliciumdioxid nichtkristallin]
MAK (OEL TWA)	4 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	Fibpulm / Lungenfibrose
Notation	SS <sub>C</sub> / SS <sub>C</sub>
Regulatory reference	www.suva.ch, 01.01.2025

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### Japan

<b>Glass, oxide, chemicals (65997-17-3)</b>	
<b>Japan - Occupational Exposure Limits (JSOH)</b>	
Local name	ガラス # glass, oxide, chemicals
JSOH OEL	0.01 mg/m <sup>3</sup> Ag として 0.05 mg/m <sup>3</sup> Cd として 0.05 mg/m <sup>3</sup> Co として 0.5 mg/m <sup>3</sup> Cr として 0.02 mg/m <sup>3</sup> 吸入性粉塵、Mn として、有機マンガ化合物を除く 0.1 mg/m <sup>3</sup> 総粉塵、Mn として、有機マンガ化合物を除く 0.03 mg/m <sup>3</sup> Pb として、アルキル鉛化合物を除く 0.1 mg/m <sup>3</sup> Sb として、スチビンを除く 0.1 mg/m <sup>3</sup> Se として、セレン化水素、六フッ素化セレンを除く
Regulatory reference	JCDB の調査による

### Korea

<b>Silicon dioxide (7631-86-9)</b>	
<b>Korea - Occupational Exposure Limits</b>	
Local name	산화규소(비결정체 실리카겔) # Silica (Amorphous silicagel)
ISHA OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	고용노동부고시 제2020-48호 # MOEL Public Notice. No. 2020-48

### Singapore

<b>Silicon dioxide (7631-86-9)</b>	
<b>Singapore - Occupational Exposure Limits</b>	
Local name	Silica gel
PEL (OEL TWA)	10 mg/m <sup>3</sup>
Regulatory reference	WSH (General Provision) Regulation 2014

### Taiwan

No additional information is available.

### United States

<b>Meteorwave® Prepreg</b>	
No additional information available	
<b>Silica (7631-86-9)</b>	
No additional information available	

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<b>Glass, oxide, chemicals (65997-17-3)</b>	
No additional information available	
<b>USA - ACGIH - Occupational Exposure Limits</b>	
Local name	Synthetic vitreous fibers - Continuous filament glass fibers
ACGIH OEL TWA	5 mg/m <sup>3</sup> (I - Inhalable particulate matter)
	1 fibers/cm <sup>3</sup> (F - Respirable fibers)
Remark (ACGIH)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2021

### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Appearance : tan. light yellow. Solid. sheet.  
Color : tan light yellow  
Odor : No data available  
Odor threshold : No data available  
pH : No data available  
Melting point : No data available  
Freezing point : Not applicable  
Boiling point : No data available  
Flash point : Not applicable  
Relative evaporation rate (butyl acetate=1) : No data available  
Flammability : Non flammable.  
Vapor pressure : No data available

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Relative vapor density at 20°C	: No data available
Relative density	: 1.5 – 2.5
Solubility	: Negligible.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: > 392 °F (> 200°C)
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: Not classified.
Oxidizing properties	: Not oxidising.

### 9.2. Other information

VOC content : < 0.2 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers. Amines.

### 10.6. Hazardous decomposition products

Acrid fumes of acids. Aliphatic hydrocarbons. aromatic hydrocarbons. Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Hydrogen bromide. Hydrogen cyanide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

<b>Silica (7631-86-9)</b>	
LD50 oral rat	3160 mg/kg Source: TOMES; HAZARDTEXT
LD50 dermal rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg Source: ECHA
ATE US (oral)	3160 mg/kg body weight
ATE US (dust, mist)	5.01 mg/l/4h

<b>Glass, oxide, chemicals (65997-17-3)</b>	
LD50 oral rat	> 2000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)

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Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

<b>Silica (7631-86-9)</b>	
NOAEL (chronic,oral,animal/male,2 years)	1800 – 3000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
NOAEL (chronic,oral,animal/female,2 years)	1800 – 3200 mg/kg body weight Animal: rat, Animal sex: female, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies)
IARC group	3 - Not classifiable

Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

<b>Silica (7631-86-9)</b>	
NOAEL (dermal,rat/rabbit,90 days)	≥ 10000 mg/kg body weight Animal: rabbit

Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: None under normal conditions. Dust from this product may cause eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
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<b>Silica (7631-86-9)</b>	
LC50 - Fish [1]	10000 mg/l Source: ECHA
EC50 - Crustacea [1]	> 5000 mg/l Source: ECHA
LOEC (chronic)	149.2 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Disposal methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

### SECTION 14: Transport information

In accordance with DOT / IMDG / IATA

#### 14.1. UN number

Not regulated for transport

#### 14.2. UN proper shipping name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

#### 14.3. Transport hazard class(es)

##### DOT

Transport hazard class(es) (DOT) : Not applicable

##### IMDG

Transport hazard class(es) (IMDG) : Not applicable

##### IATA

Transport hazard class(es) (IATA) : Not applicable

#### 14.4. Packing group

Packing group (DOT)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable

#### 14.5. Environmental hazards

Other information : No supplementary information available.

#### 14.6. Special precautions for user

##### DOT

No data available

##### IMDG

No data available

##### IATA

No data available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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### SECTION 15: Regulatory information

#### 15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

#### butanone, ethyl methyl ketone (78-93-3)

Listed on EPA Hazardous Air Pollutant (HAPS)

CERCLA RQ	5000 lb
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#### cyclohexanone (108-94-1)

CERCLA RQ	5000 lb
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#### 15.2. International regulations

##### Australia

##### Australian Industrial Chemicals Introduction Scheme (AICIS)

Australian Inventory of Industrial Chemicals (AICIS introductions Inventory) status:

All the chemicals contained in this product are listed.

##### Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP)

No additional information is available.

##### Australian Pesticides and Veterinary Medicines Authority (APVMA)

No additional information is available.

##### Canada

#### butanone; ethyl methyl ketone (78-93-3)

Listed on the Canadian DSL (Domestic Substances List)

#### cyclohexanone (108-94-1)

Listed on the Canadian DSL (Domestic Substances List)

#### Glass, oxide, chemicals (65997-17-3)

Listed on the Canadian DSL (Domestic Substances List)

#### Silica (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

##### China & Hong Kong

#### Regulation on the Safety Management of Hazardous Chemicals

Catalogue of Hazardous Chemicals (2015)  
952, Cyclohexanone  
236, 2-Butanone

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<b>Rules for dangerous goods transport by railway</b>	List of dangerous goods by railway (2009) 32090, Cyclohexanone 31173, 2-Butanone
<b>Regulation on the Control of Precursor Chemicals</b>	List of Precursor Chemicals 2-Butanone (CAS-No. 78-93-3)
<b>New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)</b>	
<b>Inventory of Existing Chemical Substances in China (IECSC)</b>	Contains listed substance(s) Glass, oxide, chemicals (CAS-No. 65997-17-3) Silica (CAS-No. 7631-86-9) Cyclohexanone (CAS-No. 108-94-1) 2-Butanone (CAS-No. 78-93-3)
<b>Law of the People's Republic of China on the Prevention and Control of Occupational Diseases</b>	
<b>Catalogue for Classification of Hazardous Factors of Occupational Diseases</b>	Contains listed substance(s) Glass wool dust (CAS-No. 65997-17-3) Cyclohexanone (CAS-No. 108-94-1) Butanone (CAS-No. 78-93-3)
<b>Regulations on the Safe Management of Hazardous Chemicals (Decree 591 of the State Council)</b>	
<b>Catalogue of Hazardous Chemicals (2015)</b>	Contains Hazardous Chemical(s) Cyclohexanone (CAS-No. 108-94-1) 2-Butanone (CAS-No. 78-93-3) Considered as Hazardous Chemical(s)
<b>Other domestic regulatory lists</b>	
<b>Dangerous Goods List (GB 12268-2012)</b>	Contains listed substance(s) CYCLOHEXANONE (CAS-No. 108-94-1)
<b>Regulation on the Administration of Precursor Chemicals (Decree 445 of the State Council)</b>	
<b>Catalogue of Precursor Chemicals</b>	Contains listed substance(s) Methyl ethyl ketone (CAS-No. 78-93-3)

### European Union

#### EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

VOC content : < 0.2 %

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### National regulations

#### Austria

Ordinance on Flammable Liquids (VbF) : Auto detect

#### Germany

Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG)  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG)

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1)

Override matching entry (12. BImSchV) : Is not subject to the Major Accidents Ordinance (12. BImSchV)

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### Netherlands

ABM category	: A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment
SZW-lijst van kankerverwekkende stoffen	: Glass, oxide, chemicals is listed
SZW-lijst van mutagene stoffen	: Glass, oxide, chemicals is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: None of the components are listed

### Switzerland

Storage class (LK)	: NG - Non-hazardous
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### Japan

Chemical Substances Control Law	Priority Assessment Chemical Substances (Article 2, Paragraph (5) of the Act) Cyclohexanone
Industrial Safety and Health Law	Class 2 Organic Solvents etc. (Enforcement Order, Art., Appended Table 6-2, Ordinance on Prevention of Organic Solvent Poisoning, Art.1, Para.1, Item 4) Cyclohexanone Methyl ethyl ketone
	Working Environment Assessment Standard (Act, Art.65-2, Para.1) Cyclohexanone Methyl ethyl ketone
	Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 2, Appended Table No.9) Crystalline silica Cyclohexanone Methyl ethyl ketone
	Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2, Enforcement Order, Art.18-2 Item 1 and 2, Appended Table 9) Crystalline silica (Ordinance number: 165-2) (under 5%) Cyclohexanone (Ordinance number: 231) (under 5%) Methyl ethyl ketone (Ordinance number: 570) (under 5%)
	Chemical substances that damage the skin, etc. Harmful substances that cause skin irritation (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 5 based on July 4, 2023) Cyclohexanone
	<b>【After amendment of April 2025】</b> Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.30 Appended Table No.2) Crystalline silica Cyclohexanone Methyl ethyl ketone
	<b>【After amendment of April 2026】</b> Dangerous or Harmful Substances for Labelling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.30 Appended Table No.2) Crystalline silica Cyclohexanone Methyl ethyl ketone
	<b>【After amendment of April 2025】</b> Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.34-2 Appended Table No.2) Crystalline silica (under 5%) Cyclohexanone (under 5%)

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	Methyl ethyl ketone (under 5%)
	<p>【After amendment of April 2026】</p> <p>Dangerous or Harmful Substances for Notification of Chemical Name etc. on SDS (Act, Art.57-2 Para.1, Enforcement Order, Art.18-2 Item 2 to 3, Ordinance on Industrial Safety and Health, Art.34-2 Appended Table No.2)</p> <p>Crystalline silica (under 5%)</p> <p>Cyclohexanone (under 5%)</p> <p>Methyl ethyl ketone (under 5%)</p>
	<p>Substances on Special medical examination, Current handling workers (Act, Art.66, Para.2, Enforcement Order, Art.22 Item 1)</p> <p>Cyclohexanone</p> <p>Methyl ethyl ketone</p>
	<p>Dangerous Substances, Flammable Substances (Enforcement Order, Art., Appended Table 1, Item 4)</p> <p>Methyl ethyl ketone</p>
	<p>Chemical substances that cause skin damage, skin-absorbable harmful substances (Ordinance on Industrial Safety and Health, Article 594-2, Para.1, list of substances applicable to No. 0704 Item 1, 5 based on July 4, 2023)</p> <p>Cyclohexanone</p> <p>Methyl ethyl ketone</p>
Pneumoconiosis Law	Dusty Works, Act, Art.2, Ordinance for Enforcement, Art.2, Appended Table Silica
Law Relating to Prevention of Marine Pollution and Maritime Disasters	<p>Harmful Liquid Substances (Group Z), (Enforcement Order, Art. Appended Table 1)</p> <p>Cyclohexanone</p> <p>Methyl ethyl ketone</p>
	<p>Dangerous Goods (Enforcement Order, Art. Appended Table 1-4)</p> <p>Methyl ethyl ketone</p>
Labor Standards Act	<p>Chemical Substances Causing Illness (Act, Art.75, Para.2, Enforcement Regulations, Appended Table No.1-2, Item 4-1)</p> <p>Cyclohexanone</p>

### Korea

Occupational Safety and Health Act		
Threshold Limit Values Chemicals	Applicable	108-94-1: Cyclohexanone 78-93-3: 2-Butanone (Methyl ethyl ketone (M.E.K))
Hazardous Substances Below Permissible Level	Applicable	108-94-1: Cyclohexanone
Hazardous Substances Subject to Working Environment Measurement	Applicable	7631-86-9: Quartz (Measurement Cycle: 6 months) 108-94-1: Cyclohexanone (Measurement Cycle: 6 months) (contains above 1%) 78-93-3: Methyl ethyl ketone (Measurement Cycle: 6 months) (contains above 1%)
Hazardous Substances Subject to Workers Requiring Health Examination	Applicable	7631-86-9: Mineral dusts (Examination Cycle: 24 months) 108-94-1: Cyclohexanone (Examination Cycle: 12 months) (contains above 1%) 78-93-3: Methyl ethyl ketone (Examination Cycle: 12 months) (contains above 1%)
Hazardous Substances Subject to Control	Applicable	108-94-1: Cyclohexanone (contains above 1%) 78-93-3: Methyl ethyl ketone (M.E.K) (contains above 1%)
Substance Subject to Submission of PSM	Applicable	108-94-1: cyclohexanone (Flammable liquids) (Manufacture · Handling: 5,000kg (Storage: 200,000kg)) 78-93-3: Butanone (Flammable liquids) (Manufacture · Handling: 5,000kg (Storage: 200,000kg)) 68-12-2: N, N-dimethylformamide (Flammable liquids)
Safety Control of Dangerous Substances Act		

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Safety Control of Dangerous Substances Act	Applicable	108-94-1: Cyclohexanone (Class 4 Flammable liquid - category 4 Second class Petroleum Water-insoluble (Designated quantity: 1,000 liter)) 78-93-3: 2-Butanone (Class 4 Flammable liquid - category 2 First class Petroleum Water-insoluble (Designated quantity: 200 liter))
<b>Act on Registration and Evaluation of Chemicals (K-REACH)</b>		
Korea Existing Chemicals Inventory (KECI)	Applicable	65997-17-3: Glass, oxide (KECI-No.: KE-17630) 7631-86-9: Silicon dioxide (KECI-No.: KE-31032) 108-94-1: Cyclohexanone (KECI-No.: KE-09188) 78-93-3: Methyl ethyl ketone; MEK, 2-Butanone (KECI-No.: KE- 24094)
Priority Existing Chemicals (PEC)	Applicable	78-93-3: Methyl ethyl ketone; MEK, 2-Butanone (PEC-No.: 43)

<b>Other Domestic Regulations</b>		
PRTR Substances	Applicable	78-93-3: Methyl ethyl ketone (Group 2)

### Singapore

Regulation		Component / Mixture
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations	Applicable	Silicon dioxide; cyclohexanone; Butanone
Fire Safety Act/Fire Safety (Petroleum and Flammable Materials) Regulations	Petroleum and Flammable Materials	Cyclohexanone; Methyl ethyl ketone
Misuse of Drugs Act	Controlled Substances Useful for Manufacturing Controlled Drugs - Part II	Methyl ethyl ketone

### Taiwan

Occupational Safety and Health Act	Applicable	Glass, oxide, chemicals; Silica, vitreous; Silicon dioxide; cyclohexanone; Butanone
Ordinance on Prevention of Organic Solvent Poisoning	Type Two	Cyclohexanone; Methyl ethyl ketone
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste	Applicable	Glass, oxide, chemicals; Silica, vitreous; Silicon dioxide; cyclohexanone; Butanone
Traffic Safety Rule	Applicable	Glass, oxide, chemicals; Silica, vitreous; Silicon dioxide; cyclohexanone; Butanone

### 15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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Component	State or local regulations
butanone, ethyl methyl ketone (78-93-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
cyclohexanone (108-94-1)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - New York City - Right to Know Hazardous Substances List; U.S. - Pennsylvania - RTK (Right to Know) List
Silica (7631-86-9)	U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

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This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.