



**FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60,
FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F,
FR-27-0042-75, FR-27-0045-35, FR-27-0050-40,
FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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US-SDS according to the federal final rule of hazard communication revised on 2024 (HazCom 2024)
Revision date: Feb.1 2026 Rev.4

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Product name : FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66,
FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S,
FR-28-0040-50, FR-28-0040-50S

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Bond Ply

1.3. Supplier

AMMK Co., Ltd. 4F Yeom B/D, 10, Hwangsaoul-ro 351beon-gil Bundang-gu, Seongnam-si, Gyeonggi-do, Korea T +82-31-704-1858	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
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1.4. Emergency telephone number

Emergency number :
AMMK Co., Ltd. : +82-31-704-1858 (9am - 5pm KST) M - F
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

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

FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S

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3.2. Mixtures

Name	Product identifier	Conc. (% w/w)
Silica	CAS-No.: 7631-86-9	20 – 60
Poly(tetrafluoroethylene)	CAS-No.: 9002-84-0	15 – 45
1,1,1,2,2,3,3-Heptafluoro-3-[(trifluoroethenyl)oxy]propane, tetrafluoroethene polymer	CAS-No.: 26655-00-5	< 10

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 : If fumes from heat or combustion are inhaled, move air to a clean location and get medical attention.
- First-aid measures after skin contact : Cool skin rapidly with cold water after contact with molten polymer. Do not peel polymer from the skin. Thoroughly flush with plenty of water and soap or skin cleanser. Get medical attention if changes in appearance or pain occur. Get medical attention if burned.
- First-aid measures after eye contact : Get medical attention as soon as possible. If eye irritation persists: Get medical advice/attention. Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.
- First-aid measures after ingestion : If swallowed, induce vomiting immediately as directed by medical personnel.

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.

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.

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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.

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 ³ respirable dust

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FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35,
FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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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

Poly(tetrafluoroethylene) (9002-84-0)	
Canada (Quebec) - Occupational Exposure Limits	
Local name	Polytetrafluoroethylene decomposition products
Notations and remarks	Determine quantitatively the decomposition products in the air and express the results as Fluorides
Regulatory reference	S-2.1, r. 13 - Regulation respecting occupational health and safety

China & Hong Kong

Silicon dioxide (7631-86-9)	
China - Occupational Exposure Limits	
Local name	沉淀SiO2 (白炭黑) # Precipitated silica dust
OEL PC-TWA	5 mg/m ³ 总尘
Regulatory reference	GBZ 2.1-2019

European Union

Poly(tetrafluoroethylene) (9002-84-0)	
Switzerland - Occupational Exposure Limits	
Local name	Polytétrafluoroéthylène [PTFE] / Polytetrafluorethylen [PTFE]
MAK (OEL TWA)	3 mg/m ³ (a) / (a)
Regulatory reference	www.suva.ch, 01.01.2025

Silicon dioxide (7631-86-9)	
Austria - Occupational Exposure Limits	
Local name	Kieselsäuren, amorphe
MAK (OEL TWA)	4 mg/m ³ (E)
Regulatory reference	BGBl. II Nr. 156/2021
Czech Republic - Occupational Exposure Limits	
Local name	Amorfní SiO ₂
PEL (OEL TWA)	4 mg/m ³ (pro celkovou koncentraci)
Remark	Prachy s možným fibrogenním účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)

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FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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Silicon dioxide (7631-86-9)	
Estonia - Occupational Exposure Limits	
Local name	Räni (ränidioksiid) (amorfne)
OEL TWA	2 mg/m ³ 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)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Kieselsäuren, amorphe
AGW (OEL TWA)	1 mg/m ³ (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
Latvia - Occupational Exposure Limits	
Local name	Silīcija dioksīds
OEL TWA	1 mg/m ³
Regulatory reference	Ministru kabineta 2007. gada 15. maija noteikumiem Nr. 325 (Grozījumi Ministru kabineta 2024. gada 26. martā noteikumiem Nr. 191).
Slovenia - Occupational Exposure Limits	
Local name	silikagel
OEL TWA	4 mg/m ³
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
Switzerland - Occupational Exposure Limits	
Local name	Silices amorphes [Dioxyde de silicium non cristallisé] / Kieselsäuren, amorphe [Diatomeenerde, Siliciumdioxid nichtkristallin]
MAK (OEL TWA)	4 mg/m ³ (i) / (e)
Critical toxicity	Fibpulm / Lungenfibrose
Notation	SS _C / SS _C
Regulatory reference	www.suva.ch, 01.01.2025

India

No additional information is available.

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FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35,
FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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Japan

No additional information is available.

Korea

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

Malaysia

Silicon dioxide (7631-86-9)	
Malaysia - Occupational Exposure Limits	
Local name	Gel silika # Silica Amorphous (Silica gel)
PEL (OEL TWA)	10 mg/m ³
MEL (mg/m ³)	30 mg/m ³

Singapore

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

Taiwan

No additional information is available.

United States

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No additional information available
Poly(tetrafluoroethylene) (9002-84-0)
No additional information available
Silica (7631-86-9)
No additional information available
1,1,1,2,2,3,3-Heptafluoro-3-[(trifluoroethenyl)oxy]propane, tetrafluoroethene polymer (26655-00-5)
No additional information available

FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S

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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.

Hand protection:
Protective gloves
Eye protection:
Safety glasses
Skin and body protection:
Wear suitable protective clothing
Respiratory protection:
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
Color : tan
Odor : odorless
Odor threshold : No data available
pH : No data available
Melting point : 608 – 644 °F (320°C - 340°C)
Freezing point : Not applicable
Boiling point : No data available
Flash point : Does not flash.
Relative evaporation rate (butyl acetate=1) : No data available
Flammability : Not flammable.
Vapor pressure : No data available
Relative vapor density at 20°C : No data available
Relative density : 2.4
Solubility : Insoluble.
Partition coefficient n-octanol/water (Log Pow) : No data available
Auto-ignition temperature : 968 °F (520°C)
Decomposition temperature : 878 °F (470°C)
Viscosity, kinematic : Not applicable
Viscosity, dynamic : No data available
Explosion limits : Not applicable
Explosive properties : Not classified.

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Oxidizing properties : Not oxidising.

9.2. Other information

No additional information available

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

Overheating. At high temperatures may form : Toxic fumes. irritating fumes.

10.5. Incompatible materials

Finely divided aluminum. Powdered metals. Strong oxidizers.

10.6. Hazardous decomposition products

Temperature levels and components that may start to be generated by pyrolysis: Fluorinated hydrocarbons, carbonyl fluoride and hydrogen fluoride
400 °C = 750°F or higher.

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

Silica (7631-86-9)	
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

1,1,1,2,2,3,3-Heptafluoro-3-[(trifluoroethenyl)oxy]propane, tetrafluoroethene polymer (26655-00-5)	
LD50 oral rat	> 11000 mg/kg

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

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Poly(tetrafluoroethylene) (9002-84-0)	
IARC group	3 - Not classifiable
Silica (7631-86-9)	
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

Silica (7631-86-9)	
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.

Silica (7631-86-9)	
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.

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

Poly(tetrafluoroethylene) (9002-84-0)

Listed on the Canadian DSL (Domestic Substances List)

Silica (7631-86-9)

Listed on the Canadian DSL (Domestic Substances List)

1,1,1,2,2,3,3-Heptafluoro-3-[(trifluoroethenyl)oxy]propane, tetrafluoroethene polymer (26655-00-5)

Listed on the Canadian DSL (Domestic Substances List)

China & Hong Kong

New Chemical Substance Environmental Management Registration Measures (MEE Order 12 of 2020)

Inventory of Existing Chemical Substances in China (IECSC)

Contains listed substance(s)
Polytetrafluoroethylene resin (CAS-No. 9002-84-0)
Silica (CAS-No. 7631-86-9)
Propane, 1,1,1,2,2,3,3-heptafluoro-3-[(trifluoroethenyl)oxy]-, polymer with tetrafluoroethene (CAS-No. 26655-00-5)

Law of the People's Republic of China on the Prevention and Control of Occupational Diseases

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)

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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)
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)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed

SZW-lijst van mutagene stoffen : None of the components are 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

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Switzerland

Storage class (LK) : NG - Non-hazardous

India

No additional information available.

Japan

Industrial Safety and Health Law	Dangerous or Harmful Substances for Labeling of Chemical Name etc. (Act Art.57 Para.1, Enforcement Order, Art.18 Item 1 and 2, Appended Table No.9) Crystalline silica 【After amendment of April 2025】
	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%) 【After amendment of April 2025】
	Dangerous or Harmful Substances for Labeling 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 【After amendment of April 2026】
	Dangerous or Harmful Substances for Labeling 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
	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%) 【After amendment of April 2026】

**FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25,
FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35,
FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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	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%)
Pneumoconiosis Law	Dusty Works, Act, Art.2, Ordinance for Enforcement, Art.2, Appended Table Silica

Korea

Occupational Safety and Health Act		
Hazardous Substances Subject to Working Environment Measurement	Applicable	7631-86-9: Quartz (Measurement Cycle: 6 months)
Hazardous Substances Subject to Workers Requiring Health Examination	Applicable	7631-86-9: Mineral dust (Examination Cycle: 24 months)
Act on Registration and Evaluation of Chemicals (K-REACH)		
Korea Existing Chemicals Inventory (KECI)	Applicable	9002-84-0: Tetrafluoroethene homopolymer; Polytetrafluoroethylene (KECI-No.: KE-33429) 7631-86-9: Silicon dioxide (KECI-No.: KE-31032) 26655-00-5: 1,1,1,2,2,3,3-Heptafluoro-3-[[trifluoro ethenyl] oxy] propane, tetrafluoroethene polymer (KECI-No.: KE-18263)

Malaysia

Regulation		Component/ Mixture
EHS Notification and Registration Scheme	Not applicable	FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Environmental Quality (Chlorofluorocarbons Prohibition) Order 1993	Not applicable	FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Environmental Quality (Scheduled Wastes) Regulations 2007	Not applicable	FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Control of Industrial Major Accident Hazards Regulations 1996		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Prohibition of Use of Substance Order 1999		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Use and Standards of Exposure of Chemical Hazardous to Health Regulations 2000		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35, FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Chemical Weapons Convention Act		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-

**FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25,
FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35,
FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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		0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Corrosive and Explosive Substances and Offensive Weapons Act		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Dangerous Drugs Act		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Pesticides Act		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Petroleum (Safety Measures) Act		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Poisons Act 1952		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S
Poisons (Psychotropic Substances) Regulations 1989		FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25, FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35. FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S

Singapore

Regulation		Component / Mixture
Workplace Safety and Health Act & Workplace Safety and Health (General Provisions) Regulations	Applicable	Silicon dioxide

Taiwan

Occupational Safety and Health Act	Applicable	Polytetrafluoroethylene; Silicon dioxide; TETRAFLUOROETHYLENE- PERFLUORO (PROPYL VINYL ETHER) COPOLYMER
Methods and Facilities Standards for the Storage, Clearance and Disposal of Industrial Waste	Applicable	Polytetrafluoroethylene; Silicon dioxide; TETRAFLUOROETHYLENE- PERFLUORO (PROPYL VINYL ETHER) COPOLYMER
Traffic Safety Rule	Applicable	Polytetrafluoroethylene; Silicon dioxide; TETRAFLUOROETHYLENE- PERFLUORO (PROPYL VINYL ETHER) COPOLYMER

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

**FR-25-0021-45, FR-25-0021-45F, FR-26-0025-60, FR-27-0030-25,
FR-27-0035-66, FR-27-0040-43F, FR-27-0042-75, FR-27-0045-35,
FR-27-0050-40, FR-27-0050-40S, FR-28-0040-50, FR-28-0040-50S**

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Component	State or local regulations
Poly(tetrafluoroethylene) (9002-84-0)	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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Revision date : Feb.1 2026

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.