

CF1-3710-2 Part A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quartz*	(CAS No) 14808-60-7 (EC no) 238-878-4	< 10	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372

*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	May cause slight irritation to eyes.
Symptoms/effects after ingestion	Ingestion may cause adverse effects.
Chronic symptoms	None expected under normal conditions of use.

4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media Water spray, fog, carbon dioxide (CO₂), alcohol-resistant foam, or dry chemical.

Unsuitable extinguishing media Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard Not considered flammable but may burn at high temperatures.

Explosion hazard Product is not explosive.

Reactivity Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire Exercise caution when fighting any chemical fire.

Firefighting instructions Use water spray or fog for cooling exposed containers.

Protection during firefighting Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray).

6.1.1. For non-emergency personnel

Protective equipment Use appropriate personal protective equipment (PPE).

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.

Emergency procedures Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling And Storage

7.1. Precautions for safe handling

Precautions for safe handling	Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapours, mist, spray.
Hygiene measures	Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Comply with applicable regulations.
Storage conditions	Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
Incompatible materials	Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

For extrusion, transfer and compression molding and calendaring. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Quartz (14808-60-7)		
Austria	MAK (mg/m ³)	0,15 mg/m ³ (yearly average, valid till 12/31/2013-alveolar dust, respirable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (alveolar dust)
Bulgaria	OEL TWA (mg/m ³)	0,07 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³ 0,1 mg/m ³ (regulated under Quartz sand-respirable dust)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	0,05 mg/m ³ (reclassified IARC group 2A to group 1-respirable fraction)
Switzerland	VME (mg/m ³)	0,15 mg/m ³ (respirable dust)
Switzerland	OEL chemical category (CH)	Category C1 carcinogen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ (respirable)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,3 mg/m ³ (total) 0,1 mg/m ³ (respirable)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (respirable)

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Quartz (14808-60-7)		
Hungary	AK-érték	0,15 mg/m ³ (respirable)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (Silicon dioxide variation-respirable fraction)
Norway	Grenseverdier (AN) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	OEL chemical category (NO)	Carcinogen
Poland	NDS (mg/m ³)	2 mg/m ³ (>50% free crystalline silica-inhalable fraction) 0,3 mg/m ³ (>50% free crystalline silica-respirable fraction) 4,0 mg/m ³ (2% to 50% free crystalline silica-inhalable fraction) 1,0 mg/m ³ (2% to 50% free crystalline silica-respirable fraction)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m ³)	0,15 mg/m ³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Sweden	OEL chemical category (SE)	Carcinogen
Portugal	OEL TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected Human Carcinogen

8.2. Exposure controls

Appropriate engineering controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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Personal protective equipment

Gloves. Protective clothing. Protective goggles.



Materials for protective clothing

Chemically resistant materials and fabrics.

Hand protection

Wear protective gloves.

Eye protection

Chemical safety goggles.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale Tan
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >135 °C (275 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative Density	: > 1 (Water=1)
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content < 1 %

SECTION 10: Stability and Reactivity

10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Silicon oxides. Will decompose above 150 °C (> 300 °F) releasing formaldehyde vapours. Formaldehyde is a potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity Not classified

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general Not classified.

12.2. Persistence and degradability

CF1-3710-2 Part A	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

CF1-3710-2 Part A	
Bioaccumulative potential	Not established.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information Avoid release to the environment.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal
recommendations

Dispose of contents/container in accordance with local,
regional, national, and international regulations.

Ecology - waste materials

Avoid release to the environment.

SECTION 14: Transport Information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN Number
Not regulated for transport
14.2. UN Proper Shipping Name
Not regulated for transport
14.3. Transport Hazard Class(Es)
Not regulated for transport
14.4. Packing Group
Not regulated for transport
14.5. Environmental Hazards
Not regulated for transport

14.6. Special Precautions For User

No additional information available

14.7. Transport in Bulk According to Annex II of MARPOL and The IBC Code

Not applicable

SECTION 15: Regulatory Information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content < 1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other Information

Indication of changes:

Section	Section Header	Change	Date Changed
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CF1-3710-2 Part A

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

2	Hazards identification	Modified	11/07/2022
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Date of Preparation or Latest Revision 11/07/2022

Revision

Data sources

Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE - Acute Toxicity Estimate
BCF - Bioconcentration Factor
BEI - Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. - Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 - Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) - IMDG Emergency Schedule Fire
EmS-No. (Spillage) - IMDG Emergency Schedule Spillage
EU – European Union
ERC50 - EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV – Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient

MARPOL - International Convention for the Prevention of Pollution
NDS - Najwyższe Dopuszczalne Stezenie
NDSch - Najwyższe Dopuszczalne Stezenie Chwilowe
NDSP - Najwyższe Dopuszczalne Stezenie Pulapowe
NOAEL - No-Observed Adverse Effect Level
NOEC - No-Observed Effect Concentration
NRD - Nevirsytinas Ribinis Dydis
NTP – National Toxicology Program
OEL - Occupational Exposure Limits
PBT - Persistent, Bioaccumulative and Toxic
PEL - Permissible Exposure Limit
pH - Potential Hydrogen
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT - Self Accelerating Decomposition Temperature
SDS - Safety Data Sheet
STEL - Short Term Exposure Limit
TA-Luft - Technische Anleitung zur Reinhaltung der Luft
TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand
TLM - Median Tolerance Limit
TLV - Threshold Limit Value
TPRD - Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 - Technische Regel für Gefahrstoffe 510 - Lagerung von Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 – Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC – Volatile Organic Compounds

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE - Valeur Limite D'exposition
VME - Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL - Workplace Exposure Limit
WGK - Wassergefährdungsklasse

NuSil EU GHS SDS

The information provided in this Safety Data Sheet (SDS) was prepared based on data believed to be accurate as of the date of this SDS. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL TECHNOLOGY LLC AND ITS AFFILIATED COMPANIES ("NUSIL") EXPRESSLY DISCLAIMS ANY AND ALL REPRESENTATIONS AND WARRANTIES REGARDING THE INFORMATION CONTAINED HEREIN INCLUDING, WITHOUT LIMITATION, AS TO ACCURACY, COMPLETENESS, FITNESS FOR PURPOSE OR USE, MERCHANTABILITY, NON-INFRINGEMENT, PERFORMANCE, SAFETY, SUITABILITY AND STABILITY. This SDS is intended as a guide to the appropriate use, handling, storage and disposal of the product to which it relates by properly trained personnel, and is not intended to be comprehensive. Users of NuSil's products are advised to perform their own tests and to exercise their own judgment to determine the safety, suitability and appropriate use, handling, storage and disposal of each product and product combination for their own purposes and uses. TO THE GREATEST EXTENT PERMITTED BY LAW, NUSIL DISCLAIMS LIABILITY FOR, AND BY USING NUSIL'S PRODUCTS PURCHASER AGREES THAT UNDER NO CIRCUMSTANCES SHALL NUSIL BE LIABLE FOR, SPECIAL, INDIRECT, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES OF ANY TYPE OR KIND, INCLUDING WITHOUT LIMITATION, FOR LOSS OF PROFITS, REPUTATIONAL DAMAGE, PRODUCT RECALL OR BUSINESS INTERRUPTION.

CF1-3710-2 Part B

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Revision date: 11/07/2022

Date of issue: 23/09/2014

Version: 4.0

SECTION 1: Identification of the Substance/mixture and of the Company/Undertaking

1.1. Product identifier

Product form	Mixture
Product Name	CF1-3710-2 Part B
Synonyms	Flurosilicone Foam

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

1.2.1. Relevant identified uses

Use of the substance/mixture	For professional use only.
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1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

NuSil Technology Europe
1198 Avenue Maurice Donat
Le Natura Bt. 2
06250 Mougins
France
+33 4 92 96 93 31
productstewardship@avantorsciencesgcc.com
www.nusil.com

1.4. Emergency telephone number

Emergency number	: 800-424-9300 CHEMTREC (in US); +1 703-527-3887 CHEMTREC (International and Maritime) +(44)-870-8200418 +(353)-19014670
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SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

EUH-statements : EUH210 - Safety data sheet available on request

2.3. Other Hazards

Other hazards not contributing to the classification	Exposure may aggravate pre-existing eye, skin, or respiratory conditions.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

3.2. Mixture

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quartz*	(CAS No) 14808-60-7 (EC no) 238-878-4	< 10	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Glass, oxide, chemicals	(CAS No) 65997-17-3 (EC no) 266-046-0	< 10	Not classified
Siloxanes and Silicones, dimethyl, methyl hydrogen	(CAS No) 68037-59-2	< 5	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

*Finely divided Quartz dust has caused cancer and lung disease in workers that inhale it over an extended period of time. Since this product is in a liquid form, the Quartz dust is not able to become airborne and cannot be inhaled. Thus, the hazards usually associated with Quartz dust are not applicable to this product.

Full text of H-phrases: see section 16

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general	Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
First-aid measures after skin contact	Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
First-aid measures after eye contact	Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
First-aid measures after ingestion	Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects	Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation	Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	Prolonged exposure may cause skin irritation.
Symptoms/effects after eye contact	May cause slight irritation to eyes.
Symptoms/effects after ingestion	Ingestion may cause adverse effects.
Chronic symptoms	None expected under normal conditions of use.

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4.3. Indication of any immediate medical attention and special treatment needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical.
Unsuitable extinguishing media	Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	Not considered flammable but may burn at high temperatures.
Explosion hazard	Product is not explosive.
Reactivity	Hazardous reactions will not occur under normal conditions.

5.3. Advice for firefighters

Precautionary measures fire	Exercise caution when fighting any chemical fire.
Firefighting instructions	Use water spray or fog for cooling exposed containers.
Protection during firefighting	Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapour, mist, spray).
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6.1.1. For non-emergency personnel

Protective equipment	Use appropriate personal protective equipment (PPE).
Emergency procedures	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	Equip cleanup crew with proper protection.
Emergency procedures	Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment	Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapours, mist, spray.

Hygiene measures Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures Comply with applicable regulations.

Storage conditions Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Incompatible materials Strong acids, strong bases, strong oxidizers.

7.3. Specific end use(s)

For extrusion, transfer and compression molding and calendaring. For professional use only.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Quartz (14808-60-7)		
Austria	MAK (mg/m ³)	0,15 mg/m ³ (yearly average, valid till 12/31/2013-alveolar dust, respirable fraction)
Belgium	Limit value (mg/m ³)	0,1 mg/m ³ (alveolar dust)
Bulgaria	OEL TWA (mg/m ³)	0,07 mg/m ³ (respirable fraction)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	0,1 mg/m ³ 0,1 mg/m ³ (regulated under Quartz sand-respirable dust)
France	VME (mg/m ³)	0,1 mg/m ³ (restrictive limit-alveolar fraction)
USA ACGIH	ACGIH TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Spain	VLA-ED (mg/m ³)	0,05 mg/m ³ (reclassified IARC group 2A to group 1-respirable fraction)
Switzerland	VME (mg/m ³)	0,15 mg/m ³ (respirable dust)
Switzerland	OEL chemical category (CH)	Category C1 carcinogen
Netherlands	Grenswaarde TGG 8H (mg/m ³)	0,075 mg/m ³ (respirable dust)
United Kingdom	WEL TWA (mg/m ³)	0,1 mg/m ³ (respirable)
United Kingdom	WEL STEL (mg/m ³)	0,3 mg/m ³ (calculated-respirable)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	0,1 mg/m ³ (dust)
Denmark	Grænseværdie (langvarig) (mg/m ³)	0,3 mg/m ³ (total) 0,1 mg/m ³ (respirable)
Estonia	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable dust)
Finland	HTP-arvo (8h) (mg/m ³)	0,05 mg/m ³ (respirable)

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Quartz (14808-60-7)		
Hungary	AK-érték	0,15 mg/m ³ (respirable)
Ireland	OEL (8 hours ref) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Ireland	OEL (15 min ref) (mg/m ³)	0,3 mg/m ³ (calculated-respirable dust)
Lithuania	IPRV (mg/m ³)	0,1 mg/m ³ (Silicon dioxide variation-respirable fraction)
Norway	Grenseverdier (AN) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	Grenseverdier (Korttidsverdi) (mg/m ³)	0,3 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-total dust) 0,1 mg/m ³ (Dust containing .alpha.-Quartz, Cristobalite and/or Tridymite is evaluated by summation formula-respirable dust)
Norway	OEL chemical category (NO)	Carcinogen
Poland	NDS (mg/m ³)	2 mg/m ³ (>50% free crystalline silica-inhalable fraction) 0,3 mg/m ³ (>50% free crystalline silica-respirable fraction) 4,0 mg/m ³ (2% to 50% free crystalline silica-inhalable fraction) 1,0 mg/m ³ (2% to 50% free crystalline silica-respirable fraction)
Romania	OEL TWA (mg/m ³)	0,1 mg/m ³ (respirable fraction, dust)
Slovakia	NPHV (priemerná) (mg/m ³)	0,1 mg/m ³ (in Cristobalite or Tridymite-total aerosol)
Slovenia	OEL TWA (mg/m ³)	0,15 mg/m ³ (respirable fraction)
Sweden	nivågränsvärde (NVG) (mg/m ³)	0,1 mg/m ³ (respirable dust)
Sweden	OEL chemical category (SE)	Carcinogen
Portugal	OEL TWA (mg/m ³)	0,025 mg/m ³ (respirable fraction)
Portugal	OEL chemical category (PT)	A2 - Suspected Human Carcinogen

Glass, oxide, chemicals (65997-17-3)		
Belgium	Limit value (mg/m ³)	10 mg/m ³ (dust and fiber)

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8.2. Exposure controls

Appropriate engineering controls

Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Personal protective equipment



Gloves. Protective clothing. Protective goggles.

Materials for protective clothing

Chemically resistant materials and fabrics.

Hand protection

Wear protective gloves.

Eye protection

Chemical safety goggles.

Skin and body protection

Wear suitable protective clothing.

Respiratory protection

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

When using, do not eat, drink or smoke.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale Tan
Odour	: Odourless
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >135 °C (275 °F)
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not applicable
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative Density	: > 1 (Water=1)
Solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

VOC content < 1 %

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SECTION 10: Stability and Reactivity

10.1. Reactivity

Contact with water, alcohols, acids or bases, and many metals or metallic compounds can liberate flammable Hydrogen gas which can form explosive mixtures in air.

10.2. Chemical stability

Stable at normal conditions.

10.3. Possibility of hazardous reactions

Evolved hydrogen gas is flammable and may form explosive mixtures with air.

10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible materials

Water, alcohols, acids, bases, strong oxidizing agents, catalytic metals, metallic compounds.

10.6. Hazardous decomposition products

Thermal breakdown of this product during fire or very high heat condition may evolve the following hazardous decomposition product: Flammable hydrogen gas. Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity Not classified

Quartz (14808-60-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 5000 mg/kg
Skin corrosion/irritation	Not classified
Serious eye damage/irritation	Not classified
Respiratory or skin sensitisation	Not classified
Germ cell mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not classified
Potential adverse human health effects and symptoms	Based on available data, the classification criteria are not met.

SECTION 12: Ecological Information

12.1. Toxicity

Ecology - general Not classified.

12.2. Persistence and degradability

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Persistence and degradability	Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

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SECTION 16: Other information

Indication of changes:

Section	Section Header	Change	Date Changed
2	Hazards identification	Modified	11/07/2022

Date of Preparation or Latest Revision 11/07/2022

Revision

Data sources

Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H- and EUH-statements:

Carc. 1A	Carcinogenicity, Category 1A
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H350	May cause cancer
H372	Causes damage to organs through prolonged or repeated exposure

Abbreviations and Acronyms

ACGIH – American Conference of Governmental Industrial Hygienists
ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road
ATE – Acute Toxicity Estimate
BCF – Bioconcentration Factor
BEI – Biological Exposure Indices (BEI)
BOD – Biochemical Oxygen Demand
CAS No. – Chemical Abstracts Service Number
CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008
COD – Chemical Oxygen Demand
EC – European Community
EC50 – Median Effective Concentration
EEC – European Economic Community
EINECS – European Inventory of Existing Commercial Chemical Substances
EmS-No. (Fire) – IMDG Emergency Schedule Fire
EmS-No. (Spillage) – IMDG Emergency Schedule Spillage
EU – European Union
ER50 – EC50 in Terms of Reduction Growth Rate
GHS – Globally Harmonized System of Classification and Labeling of Chemicals
IARC – International Agency for Research on Cancer
IATA – International Air Transport Association

MARPOL – International Convention for the Prevention of Pollution
NDS – Najwyższe Dopuszczalne Steżenie
NDSch – Najwyższe Dopuszczalne Steżenie Chwilowe
NDSP – Najwyższe Dopuszczalne Steżenie Pulapowe
NOAEL – No-Observed Adverse Effect Level
NOEC – No-Observed Effect Concentration
NRD – Nevirsytinas Ribinis Dydis
NTP – National Toxicology Program
OEL – Occupational Exposure Limits
PBT – Persistent, Bioaccumulative and Toxic
PEL – Permissible Exposure Limit
pH – Potential Hydrogen
REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals
RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail
SADT – Self Accelerating Decomposition Temperature
SDS – Safety Data Sheet
STEL – Short Term Exposure Limit
TA-Luft – Technische Anleitung zur Reinhaltung der Luft
TEL TRK – Technical Guidance Concentrations
ThOD – Theoretical Oxygen Demand
TLM – Median Tolerance Limit
TLV – Threshold Limit Value
TPRD – Trumpalaikio Poveikio Ribinis Dydis
TRGS 510 – Technische Regel für Gefahrstoffe 510 – Lagerung von

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IBC Code - International Bulk Chemical Code
IMDG - International Maritime Dangerous Goods
IPRV - Ilgalaikio Poveikio Ribinis Dydis
IOELV - Indicative Occupational Exposure Limit Value
LC50 - Median Lethal Concentration
LD50 - Median Lethal Dose
LOAEL - Lowest Observed Adverse Effect Level
LOEC - Lowest-Observed-Effect Concentration
Log Koc - Soil Organic Carbon-water Partitioning Coefficient
Log Kow - Octanol/water Partition Coefficient
Log Pow - Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water
MAK - Maximum Workplace Concentration/Maximum Permissible Concentration

Gefahrstoffen in ortsbeweglichen Behältern
TRGS 552 - Technische Regeln für Gefahrstoffe - N-Nitrosamine
TRGS 900 - Technische Regel für Gefahrstoffe 900 - Arbeitsplatzgrenzwerte
TRGS 903 - Technische Regel für Gefahrstoffe 903 - Biologische Grenzwerte
TSCA - Toxic Substances Control Act
TWA - Time Weighted Average
VOC - Volatile Organic Compounds
VLA-EC - Valor Límite Ambiental Exposición de Corta Duración
VLA-ED - Valor Límite Ambiental Exposición Diaria
VLE - Valeur Limite D'exposition
VME - Valeur Limite De Moyenne Exposition
vPvB - Very Persistent and Very Bioaccumulative
WEL - Workplace Exposure Limit
WGK - Wassergefährdungsklasse

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