

# Micromesh Abrasive Products

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Date of Issue: 20/10/2022

Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product Identifier

**Product Form** : Mixture  
**Product Name** : Abrasive Products  
**Synonyms** : AO, MX, MXD, Regular

#### 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** : Polishing various substrates i.e.: metals, wood, polycarbonates

##### 1.2.2. Uses Advised Against

No additional information available

#### 1.3. Details of the Supplier of the Safety Data Sheet

##### Company

Micro-Surface Finishing Products, Inc.

1217 W 3rd St

PO Box 70

Wilton IA 52778 USA

+1 563.732.3240

[www.micro-surface.com](http://www.micro-surface.com)

microsurface@netwtc.net

#### 1.4. Emergency Telephone Number

**Emergency Number** : +1 563.732.3240

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

**Classification According to Regulation (EC) No. 1272/2008**

Not classified – Article under 1272/2008/EC.

#### 2.2. Label Elements

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

No labelling applicable

#### 2.3. Other Hazards

**Other Hazards Not Contributing to the Classification** : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

This substance/mixture does not meet the PBT/vPvB criteria of REACH regulation, annex XIII

The mixture contains substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

Component	
Silicon carbide(409-21-2) <i>Nanoforms only</i>	The substance is included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product Identifier	%	Classification According to Regulation (EC) No. 1272/2008
Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> )	(CAS-No.) 1344-28-1 (EC-No.) 215-691-6	40 – 50	Not classified
Diamond	(CAS-No.) 7782-40-3 (EC-No.) 231-953-2	40 – 50	Not classified
Silicon carbide <i>Non-respirable</i>	(CAS-No.) 409-21-2 (EC-No.) 206-991-8 (EC Index-No.) 014-048-00-5	40 – 50	Carc. 1B, H350 STOT RE 1, H372

Full text of H- and EUH-statements: see section 16

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### 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	: In the event of dust exposure: 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. Wash with plenty of soap and water. 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	: Dust from sanding and grinding operation may be harmful if inhaled and irritating to the respiratory system.
Symptoms/Effects After Skin Contact	: Direct contact may cause irritation by mechanical abrasion.
Symptoms/Effects After Eye Contact	: Eye contact with dust may cause mechanical irritation.
Symptoms/Effects After Ingestion	: Ingestion may cause adverse effects.
Chronic Symptoms	: None expected under normal conditions of use. Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

#### 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 <sub>2</sub> ), 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.
Hazardous Combustion Products	: Chromium oxides, Oxides of silicon and carbon.

#### 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.
Other Information	: No additional information available.

### 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 dust.
6.1.1. For Non-Emergency Personnel	
Protective Equipment	: Use appropriate personal protective equipment (PPE).
Emergency Procedures	: Evacuate unnecessary personnel.
Measures In Case Of Dust Release	: Dust suppressant.
6.1.2. For Emergency Responders	
Protective Equipment	: Equip cleanup crew with proper protection.
Emergency Procedures	: Upon arrival at the scene, a first responder is expected to recognise 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. Ventilate area.

#### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

#### 6.3. Methods and Materials for Containment and Cleaning Up

For Containment	: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.
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- Methods for Cleaning Up** : Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Use explosion proof vacuum during cleanup, with appropriate filter. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.
- Other Information** : No additional information available.

### 6.4. Reference to Other Sections

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

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

- Additional Hazards When Processed** : Carbon/graphite dusts are electrically conductive and dust accumulations on electrical equipment can cause short circuits resulting in electrical shock, fire or damage to equipment. Graphite dust may create slippery conditions. . Keep dust levels to a minimum and follow applicable regulations.
- 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 dust.
- 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. Avoid creating or spreading dust. Do not dry clean dust covered objects and floors. Use water plus a cleaning agent for cleanup.
- Storage Conditions** : Store in accordance with applicable national storage class systems. 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 oxidisers.

### 7.3. Specific End Use(S)

Polishing various substrates i.e.: metals, wood, polycarbonates

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

Please see section 16 for the legal basis of limit value information in section 8.1, including the national legislation or provision which gives rise to a given limit.

Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m <sup>3</sup> (respirable fraction, smoke)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	10 mg/m <sup>3</sup> (respirable fraction) 10 mg/m <sup>3</sup> (respirable fraction, smoke)
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	1 mg/m <sup>3</sup>
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
Denmark	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	5 mg/m <sup>3</sup> (total) 2 mg/m <sup>3</sup> (respirable)
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	10 mg/m <sup>3</sup> (total dust) 4 mg/m <sup>3</sup> (respirable dust)
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
Germany	OEL TWA (Legal Basis:TRGS 900)	1,25 mg/m <sup>3</sup> (fiber-free, except Aluminum oxide smoke-respirable fraction (dust)) 10 mg/m <sup>3</sup> (fiber-free, except Aluminum oxide smoke-inhalable fraction (dust))
Greece	OEL TWA (Legal Basis:PWHSE)	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
Hungary	OEL TWA (Legal Basis:Decree No. 05/2020)	5 mg/m <sup>3</sup> 2 mg/m <sup>3</sup> (respirable dust)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	10 mg/m <sup>3</sup>
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	6 mg/m <sup>3</sup> (disintegration aerosol)
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup> (inhalable fraction) 2 mg/m <sup>3</sup> (respirable fraction)
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	10 mg/m <sup>3</sup> (set equal to the limit value for Nuisance dust)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	20 mg/m <sup>3</sup> (set equal to the limit value for Nuisance dust)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	2,5 mg/m <sup>3</sup> (inhalable fraction) 1,2 mg/m <sup>3</sup> (respirable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup> (particulate matter containing no Asbestos and <1% Crystalline silica)

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Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)		
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	2 mg/m <sup>3</sup> (aerosols) 3 mg/m <sup>3</sup> (dust (Aluminium and Aluminium oxides)) 1 mg/m <sup>3</sup> (fume (Aluminium and Aluminium oxides))
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	5 mg/m <sup>3</sup> (aerosols) 10 mg/m <sup>3</sup> (dust (Aluminium and Aluminium oxides)) 3 mg/m <sup>3</sup> (fume (Aluminium and Aluminium oxides))
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	4 mg/m <sup>3</sup> (inhalable dust) 1,5 mg/m <sup>3</sup> (respirable dust)
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	5 mg/m <sup>3</sup> (total dust) 2 mg/m <sup>3</sup> (respirable fraction)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	24 mg/m <sup>3</sup> (respirable dust, smoke)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (respirable dust, smoke)
Switzerland	OEL BLV (Legal Basis:OLVSNAIF)	50 µg/g creatinine Parameter: Aluminum - Medium: urine - Sampling time: after several shifts (for long-term exposures)
Silicon carbide (409-21-2)		
Austria	OEL TWA (Legal Basis:BGBI. II Nr. 254/2018)	5 mg/m <sup>3</sup> (fiber free-respirable fraction)
Austria	OEL STEL (Legal Basis:BGBI. II Nr. 254/2018)	10 mg/m <sup>3</sup> (fiber free-respirable fraction)
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m <sup>3</sup> 0,1 fibers/cm <sup>3</sup> (fibers including whiskers, alveolar fraction)
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	5 mg/m <sup>3</sup> (dust, inhalable fraction (Artificial abrasives))
Croatia	OEL TWA (Legal Basis:OG No. 91/2018)	10 mg/m <sup>3</sup> (total dust, inhalable particles) 4 mg/m <sup>3</sup> (respirable dust)
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	10 mg/m <sup>3</sup> (fibreless) 5 mg/m <sup>3</sup> (respirable dust)
Finland	OEL TWA (Legal Basis:HTP-ARVOT 2020)	0,1 fibers/cm <sup>3</sup>
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
Germany	OEL TWA (Legal Basis:TRGS 900)	1,25 mg/m <sup>3</sup> (fiber-free-respirable fraction (dust)) 10 mg/m <sup>3</sup> (fiber-free-inhalable fraction (dust))
Greece	OEL TWA (Legal Basis:PWHE)	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
Ireland	OEL TWA (Legal Basis:2020 COP)	3 mg/m <sup>3</sup> (respirable dust) 10 mg/m <sup>3</sup> (total inhalable dust)
Ireland	OEL STEL (Legal Basis:2020 COP)	30 mg/m <sup>3</sup> (calculated-respirable dust) 9 mg/m <sup>3</sup> (calculated)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	10 mg/m <sup>3</sup> (nonfibrous, inhalable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 3 mg/m <sup>3</sup> (nonfibrous, respirable particulate matter, particulate matter containing no asbestos and <1% crystalline silica) 0,1 fibers/cm <sup>3</sup> (as determined by the membrane filter method at 400-450X magnification (4-mm objective), using phase-contrast illumination.-respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1)
Latvia	OEL TWA (Legal Basis:Reg. No. 325)	6 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	0,1 fibers/cm <sup>3</sup>
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	0,3 fibers/cm <sup>3</sup> (value calculated)
Norway	OEL Chemical Category (Legal Basis:FOR-2020-04-06-695)	Carcinogen
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	10 mg/m <sup>3</sup> (the concentration of the respirable Crystalline silica fraction is determined simultaneously-inhalable fraction)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup> (nonfibrous, inhalable fraction, particulate matter containing no Asbestos and <1% Crystalline silica) 3 mg/m <sup>3</sup> (nonfibrous, respirable fraction, particulate matter containing no Asbestos and <1% Crystalline silica) 0,1 fibers/cm <sup>3</sup> (respirable fibers, including whiskers, length >5 µm, aspect ratio >=3:1, as determined by the membrane filter method using phase-contrast illumination)
Portugal	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A2 - Suspected Human Carcinogen including whiskers
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	10 mg/m <sup>3</sup> (dust, inhalable fraction)
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	1,5 mg/m <sup>3</sup> (respirable fraction) 4 mg/m <sup>3</sup> (inhalable fraction)

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Silicon carbide (409-21-2)		
Spain	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup> (no fibers-inhalable fraction) 3 mg/m <sup>3</sup> (no fibers-respirable fraction)
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	0,2 fibers/cm <sup>3</sup> (fibres which have a length-width relationship greater than 3:1-respirable fiber (Fibres, synthetic inorganic crystalline fibres)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (non fibrous-respirable dust) 10 mg/m <sup>3</sup> (non fibrous-inhalable dust)

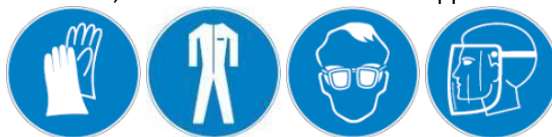
## 8.2. Exposure Controls

### 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. Face shield. Personal protective equipment should be chosen in accordance with Regulation (EU) 2016/425, CEN standards, and in discussion with the supplier of the protective equipment.



### Materials for Protective Clothing

- : Chemically resistant materials and fabrics.

### Hand Protection

- : Wear protective gloves.

### Eye Protection

- : Chemical safety goggles and face shield.

### 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	: Solid
Colour, Appearance	: Nitrile rubber / Plastic
Colour	: No data available
Odour	: No odors that outgas from this product contain Hazardous Air Pollutants (HAPs)
Odour Threshold	: No data available
pH	: Not available
pH solution	: Not available
Evaporation Rate	: No data available
Melting Point	: Not available
Freezing Point	: Not available
Boiling Point	: No data available
Flash Point	: No data available
Auto-Ignition Temperature	: Not applicable
Decomposition Temperature	: No data available
Flammability	: No data available
Vapour Pressure	: No data available
Relative Vapour Density At 20 °C	: No data available
Relative Density	: No data available
Solubility	: Non-soluble in water.
Partition Coefficient n-Octanol/Water	: No data available
Viscosity	: No data available
Explosive Properties	: No data available
Oxidising Properties	: No data available
Explosive Limits	: Not applicable
Particle Size	: Not available
Particle Size Distribution	: Not available
Particle Shape	: Not available
Particle Aspect Ratio	: Not available

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Particle Aggregation State	: Not available
Particle Agglomeration State	: Not available
Particle Specific Surface Area	: Not available
Particle Dustiness	: Not available

### 9.2. Other Information

No additional information available

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 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 oxidisers.

### 10.6. Hazardous Decomposition Products

Hazardous decomposition products: Oxides of carbon and silicon on combustion. Chromium oxides.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Hazard Classes As Defined In Regulation (Ec) No 1272/2008

Likely Routes of Exposure	: Dermal, Eye contact, Inhalation of dust from use
Acute Toxicity (Oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute Toxicity (Inhalation)	: Not classified (Based on available data, the classification criteria are not met)

Aluminum oxide (Al <sub>2</sub> O <sub>3</sub> ) (1344-28-1)	
LD50 Oral Rat	> 15900 mg/kg
Diamond (7782-40-3)	
LD50 Dermal Rat	> 2000 mg/kg
LC50 Inhalation Rat	> 5,2 mg/l (Exposure time: 241 min)

Skin Corrosion/Irritation	: Not classified (Based on available data, the classification criteria are not met)
Eye Damage/Irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or Skin Sensitisation	: Not classified (Based on available data, the classification criteria are not met)
Germ Cell Mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)

Silicon carbide (409-21-2)	
IARC Group	2A

Reproductive Toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Single Exposure)	: Not classified (Based on available data, the classification criteria are not met)
Specific Target Organ Toxicity (Repeated Exposure)	: Not classified (Based on available data, the classification criteria are not met)
Aspiration Hazard	: Not classified (Based on available data, the classification criteria are not met)
Symptoms/Injuries After Inhalation	: Sanding and grinding dusts may be harmful if inhaled and irritating to the respiratory system.
Symptoms/Injuries After Skin Contact	: Direct contact may cause irritation by mechanical abrasion.
Symptoms/Injuries After Eye Contact	: Eye contact with dust may cause mechanical irritation.
Symptoms/Injuries After Ingestion	: Ingestion may cause adverse effects.
Chronic Symptoms	: None expected under normal conditions of use. Prolonged inhalation of dust or fumes from this product may cause siderosis, a benign lung disease.

### 11.2. Information On Other Hazards

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to humans as it does not meet the criteria set out in section A of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

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Component	
Silicon carbide (409-21-2) <i>Nanoforms Only</i>	This chemical is considered to have endocrine-disrupting properties with respect to animals and humans in the lungs, respiratory tract, producing changes to physiology, morphology as it meets the criteria set out in section A of Regulation (EU) 2017/2100, and/or the criteria set out in Regulation (EU) 2018/605. This conclusion is based on evidence from studies and data obtained from a literature search conducted on this chemical, and shows a link between the effects above and endocrine activity, which is relevant for humans.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Ecology - General	: Not classified.
Hazardous To The Aquatic Environment, Short-Term (Acute)	: Not classified (Based on available data, the classification criteria are not met)
Hazardous To The Aquatic Environment, Long-Term (Chronic)	: Not classified (Based on available data, the classification criteria are not met)

Aluminum oxide (Al2O3) (1344-28-1)	
LC50 - Fish [1]	> 100 mg/l
EC50 - Crustacea [1]	> 100 mg/l
ErC50 algae	> 100 mg/l
NOEC (acute)	> 50 mg/l
Diamond (7782-40-3)	
LC50 - Fish [1]	> 100 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static])

### 12.2. Persistence and Degradability

Abrasive Products	
Persistence and Degradability	Not established.

### 12.3. Bioaccumulative Potential

Abrasive Products	
Bioaccumulative Potential	Not established.

### 12.4. Mobility in Soil

Abrasive Products	
Ecology - Soil	No data available.

### 12.5. Results of PBT and vPvB Assessment

Does not contain any PBT/vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XVIII

### 12.6. Endocrine Disrupting Properties

Based on available data this substance/the substances in this mixture not listed below do(es) not have endocrine disrupting properties with respect to non-target organisms as it does not meet the criteria set out in section B of Regulation (EU) No 2017/2100 and/or the criteria set out in Regulation (EU) 2018/605, or the substance(s) are not required to be disclosed.

Component	
Silicon carbide (409-21-2) <i>Nanoforms Only</i>	This chemical is considered to have endocrine-disrupting properties with respect to animals, humans, and non-target organisms in the lungs and respiratory system, producing changes to morphology and physiology as it meets the criteria set out in section B of Regulation (EU) 2017/2100, and/or the criteria set out in Regulation (EU) 2018/605. This conclusion is based on evidence from studies and data obtained from a literature search conducted on this chemical, and shows a link between the effects above and endocrine activity, which is relevant for non-target organisms. animals, humans, and non-target organisms respiratory tract, lungs morphology, physiology.

### 12.7. Other Adverse Effects

Other Adverse Effects	: None known.
Other Information	: Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste Treatment Methods

Regional Legislation (Waste)	: Disposal must be done according to official regulations.
Waste Treatment Methods	: Can be landfilled or incinerated, when in compliance with local regulations.
Sewage Disposal Recommendations	: Do not dispose of waste into sewer.
Product/Packaging Disposal Recommendations	: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.
Additional Information	: Incineration is the preferred method for disposal of waste product.
Ecology - Waste Materials	: Avoid release to the environment.

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### 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

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

#### 14.6. Special Precautions For User

No additional information available

#### 14.7. Maritime Transport in Bulk According to IMO instruments

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

###### 15.1.1.1. REACH Annex XVII Information

Contains no REACH substances with Annex XVII restrictions

###### 15.1.1.2. REACH Candidate List Information

Contains no substance on the REACH candidate list

###### 15.1.1.3. POP (2019/1021) - Persistent Organic Pollutants Information

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

###### 15.1.1.4. PIC Regulation EU (649/2012) - Export and Import of Hazardous Chemicals Information

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

###### 15.1.1.5. REACH Annex XIV Information

Contains no REACH Annex XIV substances

###### 15.1.1.6. Substances Depleting the Ozone layer (1005/2009) Information

No additional information available

###### 15.1.1.7. EC Inventory Information

<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Diamond (7782-40-3)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Silicon carbide (409-21-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

###### 15.1.1.8. Other Information

No additional information available

##### 15.1.2. National Regulations

No additional information available

##### 15.1.3. International Inventory Lists

<b>Abrasive Products</b>
All components of this product are either listed or exempt from listing on the United States Toxic Control Act (TSCA) Inventory and the Canadian Domestic Substances List (DSL).
<b>Aluminum oxide (Al<sub>2</sub>O<sub>3</sub>) (1344-28-1)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on the Canadian IDL (Ingredient Disclosure List) Subject to reporting requirements of United States SARA Section 313 Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory) Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances) Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory



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Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Diamond (7782-40-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

### Silicon carbide (409-21-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemicals Inventory)

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

**Date of Preparation or Latest Revision** : 20/10/2022

**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) 2020/878

### Full Text of H- and EUH-statements:

Carc. 1B	Carcinogenicity, Category 1B
H350	May cause cancer.
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H372	Causes damage to organs through prolonged or repeated exposure.

## Indication of Changes

No additional information available

## 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

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  
STOT – Specific Target Organ Toxicity

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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  
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  
MARPOL - International Convention for the Prevention of Pollution

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  
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

### Limit Value Legal Basis\*

\*Includes the below and any related regulations/provisions, and subsequent amendments

**EU - 2019/1831 EU in accor. with 98/24/EC** - Directive 2019/1831/EU of October 24, 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 2000/39/EC.  
**EU - 2019/1243/EU, and 98/24/EC** - Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work and amendment Regulation (EU) 2019/1243.  
**Austria - BGBl. II Nr. 254/2018** - Ordinance on Limit Values for Workplace Substances and on Carcinogens from the Federal Ministry of Economics and Labour, Published in 2003, Appendix 1: Substance List, Published through: Ministry of Economics and Labour of the Republic of Austria amended through the Government Gazette II (BGBl. II) No 119/2004) & BGBl. II No. 242/2006, BGBl. II No. 243/2007, lastly changed through BGBl. I Nr. 51/2011), BGBl. II Nr. 186/2015, BGBl. II Nr. 288/2017 amended by BGBl. II Nr. 254/2018.  
**Austria - BLV BGBl. II Nr. 254/2018** - Ordinance on health monitoring at the workplace 2008, published through BGBl. II Nr. 224/2007 by Austria Minister for Labor and Social Affairs, Lastly changed through BGBl. II Nr. 254/2018  
**Belgium - Royal Decree 21/01/2020** - Royal decree amending title 1 relating to chemical agents in Book VI of the code of well-being at work, with regard to the list of limit values of exposure to chemical agents and title 2 relating to carcinogens, mutagens and reprotoxics of Book VI of the code of well-being at work (1)  
**Bulgaria - Reg. No. 13/10** - Regulation No. 13 of December 30, 2003 on the Protection of Workers from Hazards Related to Exposure to Chemical Agents at Work Labor Code, Annex No.1 Limit values of chemical agents in the air of the working environment, and Annex No 2 Biological limit values of chemical agents and their metabolites (bio markers of exposure) or bio markers of effect Amended by: 71/2006, 67/2007, 2/2012, 46/2015, 73/2018, 5/2020), and Regulation No.10 of September 26, 2003 on the Protection of Workers from the Risks Associated with Exposure to Carcinogens and Mutagens at Work Annex No.1 Occupational Exposure Limits, Amended by: 8/2004, 46/2015, 5/2020  
**Croatia - OG No. 91/2018** - Regulation on the Protection of Workers from Exposure to Hazardous Chemicals at Work, the Limit Values of Exposure and the Biological Limit Values. Official Gazette No. 91 of October 12, 2018  
**Cyprus - KDP 16/2019** - Government of Cyprus Cabinet of Ministers Regulation 268/2001 - Safety and Health in the Working Environment (Chemical Substances) Article 38, As amended by Regulation 16/2019 and Cabinet of Ministers Regulation 153/2001 - Safety and Health in the Working Environment (Chemical Substances-Carcinogens), as amended by Regulation 493/2004 - Safety and Health in the Working Environment (Chemical Substances - Carcinogens) AND Law 47(I) 2000 - Occupational Health and Safety (Asbestos), as amended by Decree 316/2006.  
**Czech Republic - Reg. 41/2020** - Regulation 41/2020 amending Regulation 361/2007 of Coll. establishing Occupation Exposure Limits as amended  
**Czech Republic - Decree No. 107/2013** - Decree No. 107/2013 Coll., amending Decree No. 432/2003 Coll., laying down the conditions for the

**Greece - PWHSE** - Occupational Exposure Limits - Protection of workers' health and safety from exposure to certain chemical substances during the workday, (latest amendment 82/2018) and Occupation Exposure Limits - Protection of workers' health and safety from exposure to certain carcinogenic and mutagenic chemical substances (latest amendment 26/2020), and Presidential Decree 212/2006 - Protection of workers that are exposed to asbestos.  
**Hungary - Decree 05/2020** - 5/2020. (II. 6.) ITM decree on the protection of the health and safety of workers from the risks related to chemical agents  
**Ireland - 2020 COP** - 2020 Code of Practice for the Chemical Agents Regulations, Schedule 1  
**Italy - Decree 81** - Title IX, Annex XLIII and XXXVIII, Professional Exposure Limits and Annex XXXIX Mandatory Biological Limit Values and Health Monitoring, Article 1, Law 123 of August 3, 2007, Legislative Decree 81 of April 9, 2008, Last amended: January 2020  
**Italy - IMDFN1** - Ministerial Decree of August 20, 1999 Final Note (1)  
**Latvia - Reg. No. 325** - Cabinet of Ministers Regulation No. 325 - Labour Protection Requirements when Coming in Contact with Chemical Substances at Workplaces, Amended by Cabinet of Ministers Regulation No. 92, 163, 407 and No. 11.  
**Lithuania - HN 23:2011** - Lithuanian Hygiene Standard HN 23:2011 Occupational Exposure Limit Values, Amended by Order V-695/A1-272.  
**Luxembourg - A-N 684** - Grand-Ducal Regulation of 20 July 2018 amending the Grand-Ducal Regulation of 14 November 2016 concerning the protection of the safety and health of employees against the risks associated with chemical agents in the workplace. Official journal of the Grand-Duke of Luxembourg, A-N°684 of 2018  
**Malta - MOSHAA Ch. 424** - Malta Occupational Health and Safety Authority Act: Chapter 424 as amended by: Legal Notice 353, 53, 198, and 57.  
**Netherlands- OWCRLV** - Occupational Working Conditions Regulation, Limit Values for substances harmful to health, Annex XVIII, Updated from August 1, 2020.  
**Norway - FOR-2020-04-060695** - Regulations concerning action and limit values for physical and chemical agents in the working environment and classified biological agents, FOR-2011-12-06-1358, Updated by: FOR-2020-04-06-695, FOR-2020-03-23-402, FOR-2018-12-20-2186, FOR-2018-08-21-1255, FOR-2017-12-20-2353.  
**Poland - Dz. U. 2020 Nr. 61** - Regulation of the Minister of Family, Labor and Social Policy of June 12, 2018 on the Highest Allowable Concentrations and Intensities of Factors Harmful to Health in the Work Environment Dz.U. 2018 Nr. 1286 of June 12, 2018, Annex 1 - List of values of the highest permissible chemical concentrations and dust factors harmful to health in the work environment, amended by: Dz. U. 2020 Nr. 61.  
**Portugal - Portuguese Norm NP 1796:2014** - Occupational exposure limits and biological exposure indices to chemical agents. Table 1 - Occupational exposure limits and biological exposure indices to chemical agents (OELs), Law Decree 35/2020.  
**Romania - Gov. Dec. No 1.218** - Governmental Decision No. 1.218 from

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application of the work into categories, limit values for the parameters of biological exposure tests, collection of biological material conditions for the implementation of biological exposure tests and requirements for reporting work with asbestos and biological agents

**Denmark - BEK No. 698 of 28/05/2020** - Order on Limit Values for Substances and Materials, The Statutory Order No. 507 of May 17, 2011, Appendix 1 - Limits for air pollution, etc. and Appendix 3 - Biological Exposure Values, Amended by: No. 986 of October 11, 2012, No. 655 of May 31, 2018, No. 1458 December 13, 2019, No. 698 of May 28, 2020

**Estonia - Regulation No. 105** - Health and Safety Requirements for the Use of Dangerous Chemicals and Materials Containing Them and Occupational Exposure Limits to Chemical Agents  
Government of the Republic, Regulation No. 105 of 20 March 2001, Amended 17 October 2019, and 17 January, 2020.

**Finland - HTP-ARVOT 2020** - Concentrations Known to be Hazardous, 654/2020 OEL values 2020 Publications of Ministry of Social Affairs and Health 2020:24 Annexes1, 2 and 3.

**France - INRS ED 984** - Occupational Exposure Limit Values to Chemical Agents in France Published 2016 by the INRS National Institute of Research and Safety Health and safety of work, revised, updated by: Decree 2016-344, JORF No 0119, and Decree 2019-1487.

**France - Decree 2009-1570** - Decree 2009-1570 of December 15, 2009, relative to the control of chemical risk on workplaces.

**Germany - TRGS 900** - Occupational Exposure Limits, Technical Rules for Dangerous Substances, latest amendment March, 2020

**Germany - TRGS 903** - Biological Threshold Limits (BGW-Values), Technical Rules for Dangerous Substances, latest amendment March, 2020

**Gibraltar - LN. 2018/131** - Factories (Control of Chemical Agents at Work) Regulations 2003 LN. 2003/035, amended by LN. 2008/035, LN. 2008/050, LN. 2012/021, LN. 2015/143, LN. 2018/181.

EU GHS SDS (2020/878)

06/09/2006 on the minimum health and safety requirements for protection of workers from the risks related to exposure to chemical agents, Annex No. 1 Mandatory National Occupational Exposure Limit Values for Chemical Agents. Amended by Decision no. 157, 584, 359, and 1.

**Slovakia - Gov. Decree 33/2018** - Government Decree of Slovak Republic 33/2018 on January 17, 2018 amending Government Decree of Slovak Republic 355/2006 about protection of health of employees when working with chemical agents

**Slovenia - No. 79/19** - Regulation for protection of workers against risks related to carcinogenic or mutagenic substances exposure. Annex III - Classification and binding levels of carcinogenic or mutagenic substances for occupational exposure. The Official Journal of the Republic of Slovenia, No. 101/2005. Amended by 38/15, 79/19. Regulation for protection of workers against risks related to exposure to chemical substances at the workplace. Republic of Slovenia, No. 100/2001 . Annex I - List of Binding Occupational Exposure Limit Values. Amended by 39/05, 53/07, 102/10, 38/15, 78/18, 78/19

**Spain - AFS 2018:1** - NATIONAL INSTITUTE FOR HEALTH AND SAFETY AT WORK. Occupational exposure limits for chemical agents in Spain. Tables 1 and 3. Latest edition Feb. 2019

**Sweden - AFS 2018:1** - Statute Book of the Swedish Work Environment Authority, AFS 2018:1  
The Swedish Work Environment Authority's Ordinance and General Guidance on Hygienic Limit Values

**Switzerland - OLVSNALF** - Occupational Limit Values 2020 Swiss National Accident Insurance Fund. List of Biological Limit Values (BAT-Werte) and List of MAK Values.

*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.*