

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

#### 1.1. Product Identifier

**Product Form** : Mixture  
**Product Name** : FlameOFF Fire Barrier Paint

#### 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** : Paint

##### 1.2.2. Uses Advised Against

No additional information available

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

##### Company

FlameOFF Coatings, Inc.  
 3915 Beryl Rd. Suite 130  
 Raleigh, NC 27607  
 888-565-7145

Website: [flameoffcoatings.com](http://flameoffcoatings.com)

Email: [info@flameoffcoatings.com](mailto:info@flameoffcoatings.com)

#### 1.4. Emergency Telephone Number

**Emergency Number** : 866-598-8470  
 VelocityEHS  
 (800)255-3924 (North America)  
 +1 (813)248-0585 (International)

### SECTION 2: HAZARDS IDENTIFICATION

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


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

Acute toxicity (oral), Category 4	H302
Serious eye damage/eye irritation, Category 2	H319
Carcinogenicity, Category 2	H351
Reproductive toxicity, Category 2	H361
Specific target organ toxicity – Repeated exposure, Category 2	H373


#### 2.2. Label Elements

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

**Hazard Pictograms (CLP)** :



GHS07



GHS08

**Signal Word (CLP)** : Warning

**Hazard Statements (CLP)** :

- H302 - Harmful if swallowed.
- H319 - Causes serious eye irritation.
- H351 - Suspected of causing cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H373 - May cause damage to organs (urinary tract) through prolonged or repeated exposure.

**Precautionary Statements (CLP)** :

- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P260 - Do not breathe vapours, spray, mist.
- P264 - Wash hands, forearms and face thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P280 - Wear protective gloves, protective clothing, and eye protection.
- P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
- P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P314 - Get medical advice/attention if you feel unwell.
- P330 - Rinse mouth.

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P337+P313 - If eye irritation persists: Get medical advice/attention.  
 P405 - Store locked up.  
 P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
 : EUH208 - Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction.  
 EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.  
 Do not breathe spray or mist.

### EUH-statements

### 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	
Titanium dioxide(13463-67-7)	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
Ammonium polyphosphate	(CAS-No.) 68333-79-9 (EC-No.) 269-789-9	10 – 30	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Pentaerythritol substance with national workplace exposure limit(s) (BE, ES, FI, FR, GB, GR, HR, IE, LT, PT, SE)	(CAS-No.) 115-77-5 (EC-No.) 204-104-9	7 – 13	Not classified.
Melamine substance listed as REACH Candidate substance with national workplace exposure limit(s) (LT)	(CAS-No.) 108-78-1 (EC-No.) 203-615-4 (EC Index-No.) 613-345-00-2	7 – 13	Acute Tox. 4 (Dermal), H312 Carc. 2, H351 Repr. 2, H361f STOT RE 2, H373
Titanium dioxide substance with national workplace exposure limit(s) (AT, BE, BG, DE, DK, EE, ES, FR, GB, GR, HR, IE, LT, LV, PL, PT, RO, SE, SK, NO, CH); substance identified as having endocrine disrupting properties	(CAS-No.) 13463-67-7 (EC-No.) 236-675-5 (EC Index-No.) 022-006-00-2	5 – 10	Carc. 2, H351
Glass, oxide, chemicals substance with national workplace exposure limit(s) (BE)	(CAS-No.) 65997-17-3 (EC-No.) 266-046-0	1 – 5	Not classified.
Petroleum distillates, hydrotreated light substance with national workplace exposure limit(s) (CH)	(CAS-No.) 64742-47-8 (EC-No.) 265-149-8; (EC Index-No.) 649-422-00-2	0,1 – 0,5	Not classified.
Octadecanoic acid, 9(or 10)-sulfo-, potassium salt	(CAS-No.) 67968-63-2 (EC-No.) 267-966-5	0,1 – 0,5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Bentonite substance with national workplace exposure limit(s) (BG, CZ, SK)	(CAS-No.) 1302-78-9 (EC-No.) 215-108-5	0,1 – 0,5	Eye Dam. 1, H318 Repr. 1B, H360 Aquatic Chronic 3, H412
1,2-Benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	< 0,05	Not classified.
Diethylene glycol monobutyl ether substance with national workplace exposure limit(s) (AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8	< 0,1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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Diethylene glycol monobutyl ether	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8	< 0,1	Eye Irrit. 2, H319
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### Specific Concentration Limits:

Name	Product Identifier	Specific Concentration Limits (%)
1,2-Benzisothiazol-3(2H)-one	(CAS-No.) 2634-33-5 (EC-No.) 220-120-9 (EC Index-No.) 613-088-00-6	(0.05 ≤ C < 100) Skin Sens. 1, H317

Full text of H- and EUH-statements: 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. Immediately drench affected area with water for at least 15 minutes. If exposed or concerned: Get medical advice/attention.
- First-Aid Measures After Eye Contact** : Immediately rinse with water for at least 15 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** : Causes serious eye irritation. Harmful if swallowed. Male reproductive system (testis, sperm). May cause damage to organs (urinary tract) through prolonged or repeated exposure. Suspected of causing cancer (inhalation).
- 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** : Contact causes severe irritation with redness and swelling of the conjunctiva.
- Symptoms/Effects After Ingestion** : This material is harmful orally and can cause adverse health effects or death in significant amounts.
- Chronic Symptoms** : Suspected of causing cancer (Inhalation). May cause damage to organs (urinary tract) through prolonged or repeated exposure. May damage fertility or the unborn child.

### 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** : Carbon oxides (CO, CO<sub>2</sub>). Ammonia. Phosphorus oxides. Oxides of titanium. Nitrogen oxides. Aldehydes. Ketones. Sulphur oxides.

### 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** : Do not get in eyes, on skin, or on clothing. Do not breathe vapour, mist or spray.
- 6.1.1. For Non-Emergency Personnel**
- Protective Equipment** : Use appropriate personal protective equipment (PPE).
- Emergency Procedures** : Evacuate unnecessary personnel.

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### 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 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.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials 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. Absorb and/or contain spill with inert material. 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.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

- Precautions for Safe Handling** : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, spray, mist. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- 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** : 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. Store locked up/in a secure area.
- Incompatible Materials** : Strong acids, strong bases, strong oxidisers. Bronze. Copper. Aluminum. Zinc.

### 7.3. Specific End Use(s)

Paint

## 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.

Bentonite (1302-78-9)		
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	3 mg/m <sup>3</sup> (containing <2% free Crystalline silicon dioxide in respirable fraction-respirable fraction) 6 mg/m <sup>3</sup> (containing <2% free Crystalline silicon dioxide in respirable fraction-inhalable fraction)
Czech Republic	OEL TWA (Legal Basis:Reg. 41/2020)	6 mg/m <sup>3</sup> (dust)
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	6 mg/m <sup>3</sup> (total aerosol)
Residual Monomers		
		Internal TWA: 4 ppm (Skin); Internal STEL: 10 ppm (Skin)
USA ACGIH	OEL TWA (Legal Basis:IMDFN1)	20 ppm
Titanium dioxide (13463-67-7)		
Austria	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	5 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
Austria	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	10 mg/m <sup>3</sup> (alveolar dust, respirable fraction)
Belgium	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m <sup>3</sup>
Bulgaria	OEL TWA (Legal Basis:Reg. No. 13/10)	10 mg/m <sup>3</sup> (respirable dust)
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)	6 mg/m <sup>3</sup>
Denmark	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	12 mg/m <sup>3</sup>
Estonia	OEL TWA (Legal Basis:Regulation No. 105)	5 mg/m <sup>3</sup>
France	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>

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<b>France</b>	OEL Chemical Category (Legal Basis:INRS ED 984)	Carcinogen category 2
<b>Germany</b>	OEL TWA (Legal Basis:TRGS 900)	1.25 mg/m <sup>3</sup> (respirable fraction (dust)) 10 mg/m <sup>3</sup> (inhalable fraction (dust))
<b>Greece</b>	OEL TWA (Legal Basis:PWHE)	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Ireland</b>	OEL TWA (Legal Basis:2020 COP)	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
<b>Ireland</b>	OEL STEL (Legal Basis:2020 COP)	30 mg/m <sup>3</sup> (calculated-respirable dust) 12 mg/m <sup>3</sup> (calculated)
<b>USA ACGIH</b>	OEL TWA (Legal Basis:IMDFN1)	0.2 mg/m <sup>3</sup> (nanoscale respirable particulate matter) 2.5 mg/m <sup>3</sup> (finescale respirable particulate matter)
<b>Latvia</b>	OEL TWA (Legal Basis:Reg. No. 325)	10 mg/m <sup>3</sup>
<b>Lithuania</b>	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup>
<b>Norway</b>	OEL TWA (Legal Basis:FOR-2020-04-06-695)	5 mg/m <sup>3</sup>
<b>Norway</b>	OEL STEL (Legal Basis:FOR-2020-04-06-695)	10 mg/m <sup>3</sup> (value calculated)
<b>Poland</b>	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)
<b>Portugal</b>	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup>
<b>Portugal</b>	OEL Chemical Category (Legal Basis:Portuguese Norm NP 1796:2014)	A4 - Not Classifiable as a Human Carcinogen
<b>Romania</b>	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	10 mg/m <sup>3</sup>
<b>Romania</b>	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	15 mg/m <sup>3</sup>
<b>Slovakia</b>	OEL TWA (Legal Basis:Gov. Decree 33/2018)	5 mg/m <sup>3</sup>
<b>Spain</b>	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup>
<b>Sweden</b>	OEL TLV (Legal Basis:AFS 2018:1)	5 mg/m <sup>3</sup> (total dust)
<b>Switzerland</b>	OEL TWA (Legal Basis:OLVSNAIF)	3 mg/m <sup>3</sup> (respirable dust) 3 mg/m <sup>3</sup> (total dust limit values) 10 mg/m <sup>3</sup> (total dust limit values)
<b>Pentaerythritol (115-77-5)</b>		
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m <sup>3</sup>
<b>Croatia</b>	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)
<b>Croatia</b>	OEL STEL (Legal Basis:OG No. 91/2018)	20 mg/m <sup>3</sup>
<b>Finland</b>	OEL TWA (Legal Basis:HTP-ARVOT 2020)	10 mg/m <sup>3</sup>
<b>Finland</b>	OEL STEL (Legal Basis:HTP-ARVOT 2020)	20 mg/m <sup>3</sup>
<b>France</b>	OEL TWA (Legal Basis:INRS ED 984)	10 mg/m <sup>3</sup>
<b>Greece</b>	OEL TWA (Legal Basis:PWHE)	10 mg/m <sup>3</sup> (inhalable fraction) 5 mg/m <sup>3</sup> (respirable fraction)
<b>Ireland</b>	OEL TWA (Legal Basis:2020 COP)	10 mg/m <sup>3</sup> (total inhalable dust) 4 mg/m <sup>3</sup> (respirable dust)
<b>Ireland</b>	OEL STEL (Legal Basis:2020 COP)	20 mg/m <sup>3</sup>
<b>USA ACGIH</b>	OEL TWA (Legal Basis:IMDFN1)	10 mg/m <sup>3</sup>
<b>Lithuania</b>	OEL TWA (Legal Basis:HN 23:2011)	5 mg/m <sup>3</sup>
<b>Portugal</b>	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 mg/m <sup>3</sup>
<b>Spain</b>	OEL TWA (Legal Basis:OELCAIS)	10 mg/m <sup>3</sup> (inhalable fraction) 4 mg/m <sup>3</sup> (respirable fraction)
<b>Sweden</b>	OEL TLV (Legal Basis:AFS 2018:1)	5 mg/m <sup>3</sup> (total dust)
<b>Glass, oxide, chemicals (65997-17-3)</b>		
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 mg/m <sup>3</sup> (dust and fiber)
<b>Diethylene glycol monobutyl ether (112-34-5)</b>		
<b>EU</b>	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	67.5 mg/m <sup>3</sup>
<b>EU</b>	IOELV TWA (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	10 ppm
<b>EU</b>	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	101.2 mg/m <sup>3</sup>
<b>EU</b>	IOELV STEL (Legal Basis:2019/1831 EU in accor. with 98/24/EC)	15 ppm
<b>Austria</b>	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	67.5 mg/m <sup>3</sup>
<b>Austria</b>	OEL TWA (Legal Basis:BGBl. II Nr. 254/2018)	10 ppm
<b>Austria</b>	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	101.2 mg/m <sup>3</sup>
<b>Austria</b>	OEL STEL (Legal Basis:BGBl. II Nr. 254/2018)	15 ppm
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	67.5 mg/m <sup>3</sup>
<b>Belgium</b>	OEL TWA (Legal Basis:Royal Decree 21/01/2020)	10 ppm

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<b>Belgium</b>	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	101.2 mg/m <sup>3</sup>
<b>Belgium</b>	OEL STEL (Legal Basis:Royal Decree 21/01/2020)	15 ppm
<b>Bulgaria</b>	OEL TWA (Legal Basis:Reg. No. 13/10)	67.5 mg/m <sup>3</sup>
<b>Bulgaria</b>	OEL TWA (Legal Basis:Reg. No. 13/10)	10 ppm
<b>Bulgaria</b>	OEL STEL (Legal Basis:Reg. No. 13/10)	101.2 mg/m <sup>3</sup>
<b>Bulgaria</b>	OEL STEL (Legal Basis:Reg. No. 13/10)	15 ppm
<b>Croatia</b>	OEL TWA (Legal Basis:OG No. 91/2018)	67.5 mg/m <sup>3</sup>
<b>Croatia</b>	OEL TWA (Legal Basis:OG No. 91/2018)	10 ppm
<b>Croatia</b>	OEL STEL (Legal Basis:OG No. 91/2018)	101.2 mg/m <sup>3</sup>
<b>Croatia</b>	OEL STEL (Legal Basis:OG No. 91/2018)	15 ppm
<b>Cyprus</b>	OEL TWA (Legal Basis:KDP 16/2019)	67.5 mg/m <sup>3</sup>
<b>Cyprus</b>	OEL TWA (Legal Basis:KDP 16/2019)	10 ppm
<b>Cyprus</b>	OEL STEL (Legal Basis:KDP 16/2019)	101.2 mg/m <sup>3</sup>
<b>Cyprus</b>	OEL STEL (Legal Basis:KDP 16/2019)	15 ppm
<b>Czech Republic</b>	OEL TWA (Legal Basis:Reg. 41/2020)	100 mg/m <sup>3</sup>
<b>Denmark</b>	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	68 mg/m <sup>3</sup>
<b>Denmark</b>	OEL TWA (Legal Basis:BEK No. 698 of 28/05/2020)	10 ppm
<b>Denmark</b>	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	101 mg/m <sup>3</sup>
<b>Denmark</b>	OEL STEL (Legal Basis:BEK No. 698 of 28/05/2020)	15 ppm
<b>Estonia</b>	OEL TWA (Legal Basis:Regulation No. 105)	67.5 mg/m <sup>3</sup>
<b>Estonia</b>	OEL TWA (Legal Basis:Regulation No. 105)	10 ppm
<b>Finland</b>	OEL TWA (Legal Basis:HTP-ARVOT 2020)	68 mg/m <sup>3</sup>
<b>Finland</b>	OEL TWA (Legal Basis:HTP-ARVOT 2020)	10 ppm
<b>France</b>	OEL STEL (Legal Basis:INRS ED 984)	101.2 mg/m <sup>3</sup> (indicative limit)
<b>France</b>	OEL STEL (Legal Basis:INRS ED 984)	15 ppm (indicative limit)
<b>France</b>	OEL TWA (Legal Basis:INRS ED 984)	68 mg/m <sup>3</sup> (indicative limit)
<b>France</b>	OEL TWA (Legal Basis:INRS ED 984)	10 ppm (indicative limit)
<b>Germany</b>	OEL TWA (Legal Basis:TRGS 900)	67 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Germany</b>	OEL TWA (Legal Basis:TRGS 900)	10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)
<b>Gibraltar</b>	OEL TWA (Legal Basis:LN. 2018/181)	67.5 mg/m <sup>3</sup>
<b>Gibraltar</b>	OEL TWA (Legal Basis:LN. 2018/181)	10 ppm
<b>Gibraltar</b>	OEL STEL (Legal Basis:LN. 2018/181)	101.2 mg/m <sup>3</sup>
<b>Gibraltar</b>	OEL STEL (Legal Basis:LN. 2018/181)	15 ppm
<b>Greece</b>	OEL TWA (Legal Basis:PWHS)	67.5 mg/m <sup>3</sup>
<b>Greece</b>	OEL TWA (Legal Basis:PWHS)	10 ppm
<b>Greece</b>	OEL STEL (Legal Basis:PWHS)	101.2 mg/m <sup>3</sup>
<b>Greece</b>	OEL STEL (Legal Basis:PWHS)	15 ppm
<b>Hungary</b>	OEL TWA (Legal Basis:Decree No. 05/2020)	67.5 mg/m <sup>3</sup>
<b>Hungary</b>	OEL STEL (Legal Basis:Decree No. 05/2020)	101.2 mg/m <sup>3</sup>
<b>Ireland</b>	OEL TWA (Legal Basis:2020 COP)	67.5 mg/m <sup>3</sup>
<b>Ireland</b>	OEL TWA (Legal Basis:2020 COP)	10 ppm
<b>Ireland</b>	OEL STEL (Legal Basis:2020 COP)	101.2 mg/m <sup>3</sup>
<b>Ireland</b>	OEL STEL (Legal Basis:2020 COP)	15 ppm
<b>USA ACGIH</b>	OEL TWA (Legal Basis:IMDFN1)	10 ppm (inhalable fraction and vapor)
<b>Italy</b>	OEL TWA (Legal Basis:Decree 81)	67.5 mg/m <sup>3</sup>
<b>Italy</b>	OEL TWA (Legal Basis:Decree 81)	10 ppm
<b>Italy</b>	OEL STEL (Legal Basis:Decree 81)	101.2 mg/m <sup>3</sup>
<b>Italy</b>	OEL STEL (Legal Basis:Decree 81)	15 ppm
<b>Latvia</b>	OEL TWA (Legal Basis:Reg. No. 325)	67.5 mg/m <sup>3</sup>
<b>Latvia</b>	OEL TWA (Legal Basis:Reg. No. 325)	10 ppm
<b>Lithuania</b>	OEL TWA (Legal Basis:HN 23:2011)	67.5 mg/m <sup>3</sup>
<b>Lithuania</b>	OEL TWA (Legal Basis:HN 23:2011)	10 ppm
<b>Lithuania</b>	OEL STEL (Legal Basis:HN 23:2011)	101.2 mg/m <sup>3</sup>
<b>Lithuania</b>	OEL STEL (Legal Basis:A-N 684)	15 ppm
<b>Luxembourg</b>	OEL TWA (Legal Basis:A-N 684)	67.5 mg/m <sup>3</sup>
<b>Luxembourg</b>	OEL TWA (Legal Basis:A-N 684)	10 ppm

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Luxembourg	OEL STEL (Legal Basis:A-N 684)	101.2 mg/m <sup>3</sup>
Luxembourg	OEL STEL (Legal Basis:A-N 684)	15 ppm
Luxembourg	OEL Chemical Category (Legal Basis:A-N 684)	Possibility of significant uptake through the skin
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	67.5 mg/m <sup>3</sup>
Malta	OEL TWA (Legal Basis:MOHSAA Ch. 424)	10 ppm
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	101.2 mg/m <sup>3</sup>
Malta	OEL STEL (Legal Basis:MOHSAA Ch. 424)	15 ppm
Netherlands	OEL TWA (Legal Basis:OWCRLV)	50 mg/m <sup>3</sup>
Netherlands	OEL TWA (Legal Basis:OWCRLV)	7.4 ppm
Netherlands	OEL STEL (Legal Basis:OWCRLV)	100 mg/m <sup>3</sup>
Netherlands	OEL STEL (Legal Basis:OWCRLV)	14.8 ppm
Netherlands	OEL Chemical Category (Legal Basis:OWCRLV)	Skin notation
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	68 mg/m <sup>3</sup>
Norway	OEL TWA (Legal Basis:FOR-2020-04-06-695)	10 ppm
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	102 mg/m <sup>3</sup> (value calculated)
Norway	OEL STEL (Legal Basis:FOR-2020-04-06-695)	20 ppm (value calculated)
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	67 mg/m <sup>3</sup>
Poland	OEL TWA (Legal Basis:Dz. U. 2020 Nr. 61)	100 mg/m <sup>3</sup>
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	67.5 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL TWA (Legal Basis:Portuguese Norm NP 1796:2014)	10 ppm (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	101.2 mg/m <sup>3</sup> (indicative limit value)
Portugal	OEL STEL (Legal Basis:Portuguese Norm NP 1796:2014)	15 ppm (indicative limit value)
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	67.5 mg/m <sup>3</sup>
Romania	OEL TWA (Legal Basis:Gov. Dec. No 1.218)	10 ppm
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	101.2 mg/m <sup>3</sup>
Romania	OEL STEL (Legal Basis:Gov. Dec. No 1.218)	15 ppm
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	67.5 mg/m <sup>3</sup>
Slovakia	OEL TWA (Legal Basis:Gov. Decree 33/2018)	10 ppm
Slovakia	OEL STEL (Legal Basis:Gov. Decree 33/2018)	101.2 mg/m <sup>3</sup>
Slovenia	OEL TWA (Legal Basis:No. 79/19)	67.5 mg/m <sup>3</sup>
Slovenia	OEL TWA (Legal Basis:No. 79/19)	10 ppm
Slovenia	OEL STEL (Legal Basis:No. 79/19)	101.2 mg/m <sup>3</sup>
Slovenia	OEL STEL (Legal Basis:No. 79/19)	15 ppm
Spain	OEL TWA (Legal Basis:OELCAIS)	67.5 mg/m <sup>3</sup> (indicative limit value)
Spain	OEL TWA (Legal Basis:OELCAIS)	10 ppm (indicative limit value)
Spain	OEL STEL (Legal Basis:OELCAIS)	101.2 mg/m <sup>3</sup>
Spain	OEL STEL (Legal Basis:OELCAIS)	15 ppm
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	68 mg/m <sup>3</sup>
Sweden	OEL TLV (Legal Basis:AFS 2018:1)	10 ppm
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	101 mg/m <sup>3</sup>
Sweden	OEL STEL (Legal Basis:AFS 2018:1)	15 ppm
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	101 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	15 ppm (aerosol, vapour)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	67 mg/m <sup>3</sup> (aerosol, vapour)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	10 ppm (aerosol, vapour)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>		
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	700 mg/m <sup>3</sup> (vapour)
Switzerland	OEL STEL (Legal Basis:OLVSNAIF)	100 ppm (vapour)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	350 mg/m <sup>3</sup> (vapour) 5 mg/m <sup>3</sup> (not specified-aerosol, inhalable dust)
Switzerland	OEL TWA (Legal Basis:OLVSNAIF)	50 ppm (vapour)
<b>Melamine (108-78-1)</b>		
Lithuania	OEL TWA (Legal Basis:HN 23:2011)	0.5 mg/m <sup>3</sup> (source uses CAS 9003-08-1)

## 8.2. Exposure Controls

### Appropriate Engineering Controls

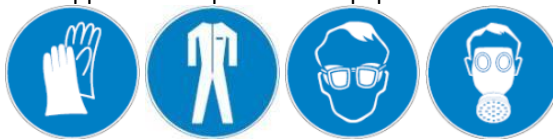
: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

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**Personal Protective Equipment** : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. 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.  
**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, Appearance** : No data available  
**Odour** : No data available  
**Odour Threshold** : No data available  
**pH** : No data available  
**Evaporation Rate** : No data available  
**Melting Point** : No data available  
**Freezing Point** : 0 °C (32 °F)  
**Boiling Point** : No data available  
**Flash Point** : No data available  
**Auto-Ignition Temperature** : No data available  
**Decomposition Temperature** : No data available  
**Flammability** : Not applicable  
**Vapour Pressure** : No data available  
**Relative Vapour Density At 20°C** : No data available  
**Relative Density** : No data available  
**Density** : 12.33 lb/gal  
**Solubility** : No data available  
**Partition Coefficient n-Octanol/Water** : No data available  
**Viscosity** : 112 cP  
**Explosive Properties** : No data available  
**Oxidising Properties** : No data available  
**Explosive Limits** : No data available  
**Particle Aspect Ratio** : Not applicable  
**Particle Aggregation State** : Not applicable  
**Particle Agglomeration State** : Not applicable  
**Particle Specific Surface Area** : Not applicable  
**Particle Dustiness** : Not applicable

### 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 polymerisation will not occur.



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### 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. Bronze. Copper. Aluminum. Zinc.

### 10.6. Hazardous Decomposition Products

Thermal decomposition may produce: Carbon oxides (CO, CO<sub>2</sub>). Ammonia. Phosphorus oxides. Oxides of titanium. Nitrogen oxides. Aldehydes. Ketones. Sulfur 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, Oral
Acute Toxicity (Oral)	: Harmful if swallowed.
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)

FlameOFF Fire Barrier Paint	
ATE CLP (oral)	1,011.12 mg/kg bodyweight
Water (7732-18-5)	
LD50 Oral Rat	> 90 ml/kg (Source: FOOD_JOURN)
Bentonite (1302-78-9)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
Titanium dioxide (13463-67-7)	
LD50 Oral Rat	> 10000 mg/kg (Source: IUCLID)
LC50 Inhalation Rat	5.09 mg/l/4h
Pentaerythritol (115-77-5)	
LD50 Oral Rat	19500 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 10000 mg/kg (Source: ECHA_API)
LC50 Inhalation Rat	> 5.15 mg/l/4h
Ammonium polyphosphate (68333-79-9)	
LD50 Oral Rat	> 300 – 2000 mg/kg
LC50 Inhalation Rat	> 4.85 mg/l/4h
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	
LD50 Oral Rat	1020 mg/kg (Source: NZ_CCID)
LD50 Dermal Rat	> 2000 mg/kg (Source: ECHA_API)
2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)	
LD50 Oral Rat	3700 mg/kg (Species: Wistar)
LC50 Inhalation Rat	42.1 ppm/4h
Diethylene glycol monobutyl ether (112-34-5)	
LD50 Oral Rat	5660 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	2700 mg/kg (Source: NLM_CIP)
Petroleum distillates, hydrotreated light (64742-47-8)	
LD50 Oral Rat	> 5000 mg/kg (Source: IUCLID)
LD50 Dermal Rabbit	> 2000 mg/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 5.2 mg/l/4h No deaths resulted. At necropsy, no significant effects were found in the lungs.
Melamine (108-78-1)	
LD50 Oral Rat	3161 mg/kg (Source: NLM_CIP)
LD50 Dermal Rabbit	> 1 g/kg (Source: NLM_CIP)
LC50 Inhalation Rat	> 5.19 g/m <sup>3</sup> (Exposure time: 4 h Source: NICNAS)
Skin Corrosion/Irritation	: Not classified.
Eye Damage/Irritation	: Causes serious eye irritation.
Respiratory or Skin Sensitisation	: Not classified.
Germ Cell Mutagenicity	: Not classified.
Carcinogenicity	: Suspected of causing cancer. (----- TO BE COMPLETED -----)
Titanium dioxide (13463-67-7)	
IARC Group	2B
Glass, oxide, chemicals (65997-17-3)	
IARC Group	3

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<b>National Toxicology Program (NTP) Status</b>	Reasonably anticipated to be Human Carcinogen.
<b>Melamine (108-78-1)</b>	
<b>IARC Group</b>	2B
<b>National Toxicology Program (NTP) Status</b>	Evidence of Carcinogenicity.

<b>Reproductive Toxicity</b>	: Suspected of damaging fertility or the unborn child.
<b>Specific Target Organ Toxicity (Single Exposure)</b>	: Not classified. (Based on available data, the classification criteria are not met)
<b>Specific Target Organ Toxicity (Repeated Exposure)</b>	: May cause damage to organs (urinary tract) through prolonged or repeated exposure.
<b>Aspiration Hazard</b>	: Not classified. (Based on available data, the classification criteria are not met)
<b>Symptoms/Injuries After Inhalation</b>	: Prolonged exposure may cause irritation.
<b>Symptoms/Injuries After Skin Contact</b>	: Prolonged exposure may cause skin irritation.
<b>Symptoms/Injuries After Eye Contact</b>	: Contact causes severe irritation with redness and swelling of the conjunctiva.
<b>Symptoms/Injuries After Ingestion</b>	: This material is harmful orally and can cause adverse health effects or death in significant amounts.
<b>Chronic Symptoms</b>	: Suspected of causing cancer (Inhalation). Suspected of damaging fertility or the unborn child. May cause damage to organs (urinary tract) through prolonged or repeated exposure.

### 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.

Component	
Titanium dioxide (13463-67-7)	This chemical is considered to have endocrine-disrupting properties with respect to animals and humans in the lungs, producing changes to 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.
1,2-Benzisothiazol-3(2H)-one (2634-33-5)	No endocrine-disrupting effects are expected in humans or target animals.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

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

<b>Bentonite (1302-78-9)</b>	
<b>LC50 - Fish [1]</b>	19000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: EPA)
<b>Pentaerythritol (115-77-5)</b>	
<b>LC50 - Fish [1]</b>	> 100 mg/l (Exposure Time: 96 h - Species: Oncorhynchus mykiss)
<b>EC50 - Crustacea [1]</b>	30477 – 37043 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])
<b>Ammonium polyphosphate (68333-79-9)</b>	
<b>LC50 - Fish [1]</b>	> 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static] Source: IUCLID)
<b>LC50 - Fish [2]</b>	123 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: EPA)
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
<b>EC50 - Crustacea [1]</b>	0.99 mg/l
<b>2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)</b>	
<b>LC50 - Fish [1]</b>	841 mg/l (Exposure time: 96 h - Species: Poecilia reticulata [static])
<b>ErC50 algae</b>	556.4 mg/l
<b>Diethylene glycol monobutyl ether (112-34-5)</b>	
<b>LC50 - Fish [1]</b>	1300 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
<b>EC50 - Crustacea [1]</b>	> 100 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
<b>LC50 - Fish [1]</b>	45 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: IUCLID)

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LC50 - Fish [2]	2.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)
<b>Melamine (108-78-1)</b>	
LC50 - Fish [1]	> 3000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata Source: IUCLID)
EC50 - Crustacea [1]	> 2000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
ErC50 algae	196 mg/l
NOEC chronic fish	5.1 mg/l
NOEC chronic crustacea	11 mg/l
NOEC chronic algae	31 mg/l

### 12.2. Persistence and Degradability

<b>FlameOFF Fire Barrier Paint</b>	
Persistence and Degradability	Not established.
<b>Residual Monomers</b>	
Persistence and Degradability	Readily biodegradable.

### 12.3. Bioaccumulative Potential

<b>FlameOFF Fire Barrier Paint</b>	
Bioaccumulative Potential	Not established.
<b>Residual Monomers</b>	
Partition coefficient n-octanol/water (Log Pow)	0.93
<b>Pentaerythritol (115-77-5)</b>	
BCF Fish 1	0.3 – 0.6
Partition coefficient n-octanol/water (Log Pow)	-1.7 (at 23 °C (at pH 6.1)
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>	
Partition coefficient n-octanol/water (Log Pow)	0.99 (at 20 °C (at pH 5)
<b>Diethylene glycol monobutyl ether (112-34-5)</b>	
BCF Fish 1	(no bioconcentration expected)
Partition coefficient n-octanol/water (Log Pow)	1 (at 20 °C (at pH 7)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>	
BCF Fish 1	61 – 159
<b>Melamine (108-78-1)</b>	
BCF Fish 1	(0.38 dimensionless)
Partition coefficient n-octanol/water (Log Pow)	-1.22 (at 22 °C (at pH 8)

### 12.4. Mobility in Soil

No additional information 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.

### 12.7. Other Adverse Effects

Other Information : Avoid release to the environment.

## 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.
Additional Information	: Container may remain hazardous when empty. Continue to observe all precautions.
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

<b>14.1. UN Number or ID Number</b>
Not regulated for transport

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<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
<b>14.6. Special Precautions For User</b>
No additional information available
<b>14.7. Maritime Transport in Bulk According to IMO instruments</b>
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

Listed on REACH Annex XVII (Restriction Conditions). The following restrictions are applicable:

28. Substances which are classified as carcinogen category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 1 or Appendix 2, respectively.	FlameOFF Fire Barrier Paint
3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F	Petroleum distillates, hydrotreated light
3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10	FlameOFF Fire Barrier Paint ; Diethylene glycol monobutyl ether ; Petroleum distillates, hydrotreated light
3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Petroleum distillates, hydrotreated light
30. Substances which are classified as reproductive toxicant category 1A or 1B in Part 3 of Annex VI to Regulation (EC) No 1272/2008 and are listed in Appendix 5 or Appendix 6, respectively.	FlameOFF Fire Barrier Paint
40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not.	Petroleum distillates, hydrotreated light
55. 2-(2-butoxyethoxy)ethanol (DEGBE)	Diethylene glycol monobutyl ether

##### 15.1.1.2. REACH Candidate List Information

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Melamine (EC 203-615-4, CAS 108-78-1)

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

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

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

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

##### 15.1.1.5. REACH Annex XIV Information

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

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

No additional information available

##### 15.1.1.7. EC Inventory Information

<b>Water (7732-18-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Bentonite (1302-78-9)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Titanium dioxide (13463-67-7)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

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<b>Pentaerythritol (115-77-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (67968-63-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Ammonium polyphosphate (68333-79-9)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Glass, oxide, chemicals (65997-17-3)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>1,2-Benzisothiazol-3(2H)-one (2634-33-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Diethylene glycol monobutyl ether (112-34-5)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Petroleum distillates, hydrotreated light (64742-47-8)</b>
Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)
<b>Melamine (108-78-1)</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>Water (7732-18-5)</b>
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 INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory) Listed on Thailand Existing Chemicals Inventory (DIW)
<b>Bentonite (1302-78-9)</b>
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 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 INSQ (Mexican National Inventory of Chemical Substances) Listed on the TCSI (Taiwan Chemical Substance Inventory) Listed on the NCI (Vietnam - National Chemical Inventory) Listed on Thailand Existing Chemicals Inventory (DIW)
<b>Titanium dioxide (13463-67-7)</b>
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on the Canadian DSL (Domestic Substances List) Listed on IARC (International Agency for Research on Cancer) 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 Chemical Inventory) Listed on Thailand Existing Chemicals Inventory (DIW)
<b>Pentaerythritol (115-77-5)</b>
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)

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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 Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

### **Octadecanoic acid, 9(or 10)-sulfo-, potassium salt (67968-63-2)**

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian NDSL (Non-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 IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)

### **Ammonium polyphosphate (68333-79-9)**

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 the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

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

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 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 INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

### **1,2-Benzisothiazol-3(2H)-one (2634-33-5)**

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 Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

### **2-Propanol, 1-(2-butoxy-1-methylethoxy)- (29911-28-2)**

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)

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Listed on INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

### Diethylene glycol monobutyl ether (112-34-5)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)  
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory  
Listed on the Japanese ISHL (Industrial Safety and Health Law)  
Listed on KECL/KECI (Korean Existing Chemicals Inventory)  
Listed on NZIoC (New Zealand Inventory of Chemicals)  
Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)  
Listed on the United States TSCA (Toxic Substances Control Act) inventory  
Ingredient Disclosure List :  
Disclosure at 1 % according to The Ingredient Disclosure List.

### Petroleum distillates, hydrotreated light (64742-47-8)

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 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 INSQ (Mexican National Inventory of Chemical Substances)  
Listed on the TCSI (Taiwan Chemical Substance Inventory)  
Listed on the NCI (Vietnam - National Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

### Melamine (108-78-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active  
Listed on the Canadian DSL (Domestic Substances List)  
Listed on IARC (International Agency for Research on Cancer)  
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)  
Japanese Pollutant Release and Transfer Register Law (PRTR Law)  
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 Chemical Inventory)  
Listed on Thailand Existing Chemicals Inventory (DIW)

## 15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out

## SECTION 16: OTHER INFORMATION

**Date of Preparation or Latest Revision** : 20/09/2024

**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:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
EUH208	Contains 1,2-Benzisothiazol-3(2H)-one(2634-33-5). May produce an allergic reaction.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1

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Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Repr. 1B	Reproductive toxicity, Category 1B
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis

### Classification and Procedure Used to Derive the Classification for Mixtures According to Regulation (EC) 1272/2008 [CLP]:

Acute Tox. 4 (Oral)	Calculation method
Eye Irrit. 2	Calculation method
Carc. 2	Calculation method
Repr. 2	Calculation method
STOT RE 2	Calculation method

### Indication of Changes

Section	Change	Date Changed	Version
2	Classification and Phrasing	22/07/2024	2.0
8	Limit values and Phrasing	22/07/2024	2.0
11,12	Data and Phrasing	22/07/2024	2.0
15	Phrasing	22/07/2024	2.0

### 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

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  
 STOT - Specific Target Organ Toxicity  
 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



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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

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

### Glossary of Data Source Abbreviations

ATSDR: Agency for Toxic Substances and Disease Registry (U.S. Department of Health and Human Services)  
AU\_WES: Australia WES  
CHEMVIEW: ChemView (U.S. Environmental Protection Agency)  
EC\_RAR: European Commission Renewal Assessment Report  
EC\_SCOEL: European Commission Scientific Committee on Occupational Exposure Limits  
ECETOC: European Centre for Ecotoxicology and Toxicology of Chemicals Reports  
ECHA\_API: European Chemicals Agency API  
ECHA\_RAC: ECHA Committee for Risk Assessment  
EFSA: European Food Safety Authority  
EPA: U.S. Environmental Protection Agency  
EPA\_AEGL: Acute Exposure Guideline Levels (U.S. Environmental Protection Agency)  
EPA\_FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act Reregistration Eligibility Decision (U.S. Environmental Protection Agency)  
EPA\_HPVC: High Production Volume Chemicals (U.S. Environmental Protection Agency)  
EPA\_TRED: Risk Assessment for Tolerance Reassessment Eligibility Decision (U.S. Environmental Protection Agency)  
EU\_CLH: European Union Harmonised Classification and Labelling Proposal  
EU\_RAR: European Union Risk Assessment Report

FOOD\_JOURN: Food Research Journal (1956)  
IARC: The International Agency for Research on Cancer  
IDLH: National Institute for Occupational Health and Safety Immediately Dangerous to Life or Health Value Profiles  
IUCLID: International Uniform Chemical Information Database  
JAPAN\_GHS: Japan GHS Basis for Classification Data  
JP\_J-CHECK: Japan J-Check  
KR\_NIER: South Korea National Institute of Environmental Research Evaluations  
NICNAS: Australia National Industrial Chemicals Notification and Assessment Scheme  
NIOSH: National Institute for Occupational Health and Safety (U.S. Department of Health and Human Services)  
NLM\_CIP: National Library of Medicine ChemID plus database  
NLM\_HSD: National Library of Medicine Hazardous Substance Data Bank  
NLM\_PUBMED: National Library of Medicine PubMed database  
NTP: National Toxicology Program  
NZ\_CCID: New Zealand Chemical Classification and Information Database  
OECD\_EHSP: Environment, Health, and Safety Publication (Organisation for Economic Co-operation and Development)  
OECD\_SIDS: Screening Information Data Sets (Organisation for Economic Co-operation and Development)  
WHO: World Health Organization

### 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

**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- OWCR LV** - 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

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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 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.

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.

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**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.

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**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

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**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.*

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