

### Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 16/04/2015 Revision date: 13/11/2024 Supersedes version of: 06/03/2024 Version: 14.0

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product form	-	Mixture
Product name	:	FLUORINE ABSORBER
Product code	:	B1240
Product group	:	End product

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

#### 1.2.1. Relevant identified uses

Main use category	: Professional use
Use of the substance/mixture	: Laboratory chemicals
Function or use category	: Laboratory chemicals

#### 1.2.2. Uses advised against

No additional information available

### 1.3. Details of the supplier of the safety data sheet

Elemental Microanalysis Ltd 1 Hameldown Road Okehampton, Devon, EX20 1UB GB United Kingdom T +44 1837 54446 enquiries@microanalysis.co.uk, https://www.elementalmicroanalysis.com/

### 1.4. Emergency telephone number

Emergency number

: +44 (0) 7990 767375

### **SECTION 2: Hazards identification**

# Classification according to Regulation (EC) No. 1272/2008 [CLP]Skin corrosion/irritation, Category 2H315Serious eye damage/eye irritation, Category 1H318Specific target organ toxicity – Single exposure, Category 3, RespiratoryH335

Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

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

#### Adverse physicochemical, human health and environmental effects

May cause respiratory irritation. Causes skin irritation. Causes serious eye damage.

### 2.2. Label elements

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

Hazard pictograms (CLP)

201		
:		
	$\sim$	
	GHS05	GHS07
:	Danger	

: H315 - Causes skin irritation.

: CALCIUM OXIDE

Signal word (CLP)	
Contains	
Hazard statements (CLP)	

Precautionary statements (CLP)

H318 - Causes serious eye damage. H335 - May cause respiratory irritation.

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands thoroughly after handling.

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P280 - Wear eye protection, protective clothing, protective gloves. P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER, a doctor. P312 - Call a POISON CENTRE or doctor if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label).

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not 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 at a concentration equal to or greater than 0,1 %

### 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 [CLP]
CERIUM DIOXIDE	CAS-No.: 1306-38-3 EC-No.: 215-150-4	50	Not classified
CALCIUM OXIDE	CAS-No.: 1305-78-8 EC-No.: 215-138-9	50	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

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

### **SECTION 4: First aid measures** 1.12

4.1. Description of first aid measure	S
First-aid measures general	: Call a poison center or a doctor if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and e	effects, both acute and delayed
Symptoms/effects after inhalation Symptoms/effects after skin contact Symptoms/effects after eye contact	<ul> <li>May cause respiratory irritation.</li> <li>Irritation.</li> <li>Serious damage to eyes.</li> </ul>

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

Treat symptomatically.

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SECTION 5: Firefighting measure	S	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Special hazards arising from the substance or mixture		
Hazardous decomposition products in case of fire	: Toxic fumes may be released.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	

SECTION 6: Accidental releas	e measures
6.1. Personal precautions, protective	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for contain	nment and cleaning up
Methods for cleaning up	: Mechanically recover the product.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	

For further information refer to section 13.

SECTION 7: Handling and storage			
7.1. Precautions for safe handlin	g		
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal protective equipment.		
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage,	including any incompatibilities		
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.		
7.3. Specific end use(s)			

No additional information available

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

### 8.1.1 National occupational exposure and biological limit values

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CALCIUM OXIDE (1305-78-8)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Calcium oxide	
IOEL TWA	1 mg/m <sup>3</sup> (Respirable fraction)	
IOEL STEL	4 mg/m <sup>3</sup> (Respirable fraction)	
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	
United Kingdom - Occupational Exposure Limits		
Local name	Calcium oxide	
WEL TWA (OEL TWA)	2 mg/m <sup>3</sup> 1 mg/m <sup>3</sup> Respirable fraction	
WEL STEL (OEL STEL)	4 mg/m <sup>3</sup> Respirable fraction	
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE	

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

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



#### 8.2.2.1. Eye and face protection

Eye protection: Safety glasses

#### 8.2.2.2. Skin protection

Skin and body protection: Wear suitable protective clothing

Hand protection: Protective gloves

#### 8.2.2.3. Respiratory protection

#### **Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

#### 8.2.2.4. Thermal hazards

No additional information available

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#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

Physical state	: Solid	
Colour	: white.	
Odour	: odourless.	
Odour threshold	: Not available	
Melting point	: No data available.	
Freezing point	: Not applicable	
Boiling point	: Not available	
Flammability	: Non flammable.	
Explosive limits	: Not applicable	
Lower explosion limit	: Not applicable	
Upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: No data available.	
Decomposition temperature	: Not available	
рН	: No data available.	
pH solution	: Not available	
Viscosity, kinematic	: Not applicable	
Solubility	: Not available	
Partition coefficient n-octanol/water (Log Kow)	: Not available	
Vapour pressure	: Not available	
Vapour pressure at 50°C	: Not available	
Density	: Not available	
Relative density	: No data available.	
Relative vapour density at 20°C	: No data available.	
Particle size	: Not available	

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

No additional information available

### 9.2.2. Other safety characteristics

No additional information available

### **SECTION 10: Stability and reactivity**

### 10.1. Reactivity

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

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

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### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11.1. Information on hazard classes	as defined in Regulation (EC) No 1272/2008
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	<ul> <li>Not classified</li> <li>Not classified</li> <li>Not classified</li> </ul>
CERIUM DIOXIDE (1306-38-3)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 5.05 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Dust/Mist)	5.05 mg/l Source: IUCLID
CALCIUM OXIDE (1305-78-8)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 Inhalation - Rat	> 6.04 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
Skin corrosion/irritation	: Causes skin irritation. pH: No data available.
CALCIUM OXIDE (1305-78-8)	
рН	12.8 Source: HSDB
Serious eye damage/irritation	: Causes serious eye damage. pH: No data available.
CALCIUM OXIDE (1305-78-8)	
рН	12.8 Source: HSDB
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity Reproductive toxicity	: Not classified : Not classified
STOT-single exposure	: May cause respiratory irritation.
CALCIUM OXIDE (1305-78-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
CERIUM DIOXIDE (1306-38-3)	
NOAEL (oral, rat, 90 days)	≥ 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screenin Test)
CALCIUM OXIDE (1305-78-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

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Aspiration hazard :	Not classified
FLUORINE ABSORBER	
Viscosity, kinematic	Not applicable
CERIUM DIOXIDE (1306-38-3)	
Viscosity, kinematic	Not applicable
CALCIUM OXIDE (1305-78-8)	
Viscosity, kinematic	Not applicable
11.2. Information on other hazards	

No additional information available

12.1. Toxicity	
Ecology - general Hazardous to the aquatic environment, short–tern (acute) Hazardous to the aquatic environment, long–term (chronic) Not rapidly degradable	
CERIUM DIOXIDE (1306-38-3)	
LC50 - Fish [1]	77.556 mg/l Source: QSAR
EC50 - Other aquatic organisms [1]	> 100 mg/l
EC50 96h - Algae [1]	53.489 mg/l Source: QSAR
CALCIUM OXIDE (1305-78-8)	
LC50 - Fish [1]	50.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	49.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	184.57 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
NOEC (chronic)	32 mg/l Test organisms (species): Crangon septemspinosa Duration: '14 d'
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Results of PBT and vPvB assess	nent
No additional information available	
12.6. Endocrine disrupting properties	

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### 12.7. Other adverse effects

No additional information available

### **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

Waste treatment methods HP Code

Dispose of contents/container in accordance with licensed collector's sorting instructions.
 HP5 - "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.

### SECTION 14: Transport information In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	ΙΑΤΑ	ADN	RID
NOT SUBJECT	NOT SUBJECT (Not subject to the provisions of IMDG but may be subject to provisions governing the transport of dangerous goods by other modes)		NOT SUBJECT	NOT SUBJECT TO RID
14.1. UN number or ID n	number			
UN 1910	UN 1910	UN 1910	UN 1910	UN 1910
14.2. UN proper shippin	g name			
calcium oxide (CALCIUM OXIDE)	CALCIUM OXIDE (CALCIUM OXIDE)	Calcium oxide (CALCIUM OXIDE)	calcium oxide (CALCIUM OXIDE)	Calcium oxide (CALCIUM OXIDE)
Transport document descr	iption			
UN 1910 calcium oxide (CALCIUM OXIDE), 8	UN 1910 CALCIUM OXIDE (CALCIUM OXIDE), 8	UN 1910 Calcium oxide (CALCIUM OXIDE), 8, III	UN 1910 calcium oxide (CALCIUM OXIDE), 8	UN 1910 Calcium oxide (CALCIUM OXIDE), 8
14.3. Transport hazard	class(es)		1	
8	8	8	8	8
Not applicable	B	B	Not applicable	Not applicable
14.4. Packing group				1
Not applicable	Not applicable	III	Not applicable	Not applicable
14.5. Environmental haz	zards			
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No
No supplementary information	on available		1	1
14.6. Special precautio	ns for user			
Overland transport				

Classification code (ADR)

EAC code

: C6 : 2X

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<b>Transport by sea</b> Special provisions (IMDG) Stowage category (IMDG) Properties and observations (IMDG)	<ul> <li>960</li> <li>None</li> <li>Not subject to the provisions of this Code but may be subject to provisions governing the transport of dangerous goods by other modes.</li> </ul>
Air transport	: E1
PCA Excepted quantities (IATA) PCA Limited quantities (IATA)	: Y845
PCA limited quantity max net quantity (IATA)	: 5kg
PCA packing instructions (IATA)	: 860
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 864
CAO max net quantity (IATA)	: 100kg
Special provisions (IATA)	: A803
ERG code (IATA)	: 8L
Inland waterway transport	
Classification code (ADN)	: C6
Rail transport	
Classification code (RID)	: C6

### 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

#### **REACH Annex XVII (Restriction List)**

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

#### **REACH Annex XIV (Authorisation List)**

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

#### **REACH Candidate List (SVHC)**

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

#### **PIC Regulation (Prior Informed Consent)**

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

#### **POP Regulation (Persistent Organic Pollutants)**

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

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### **Explosives Precursors Regulation (2019/1148)**

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

### Drug Precursors Regulation (273/2004)

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

#### 15.1.2. National regulations

No additional information available

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### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Abbreviations and acronyms:           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 Toxitiy Estimate           BCF         Bioconcentration factor           BLV         Biological limit value           BOD         Biochemical oxygen demand (BOD)           CDD         Chemical oxygen demand (COD)           DMEL         Derived Minmal Effect Level           EC-No.         European Community number           ECS0         Median effective concentration           EN         European Standard           IARC         International Agency for Research on Cancer           IARA         International Marine Dargerous Goods           LOS0         Median International Marine Dargerous Goods           LOS1         No-Observed Adverese Effect Level           NOAEL	SECTION 16: Oth	SECTION 16: Other information	
ADREuropean Agreement concerning the International Carriage of Dangerous Goods by RoadATEAcute Toxicity EstimateBCFBioconcentration factorBLVBiological limit valueBODBiochemical oxygen demand (BOD)CODChemical oxygen demand (CDD)DMELDerived Minimal Effect levelDNELDerived Minimal Effect levelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agercy for Research on CancerIATAInternational Maritime Dangerous GoodsICS0Median lethal concentrationNOAELNo-Observed Adverse Effect LovelNOAELNo-Observed Adverse Effect Lovel	Abbreviations and acr	Abbreviations and acronyms:	
ATE     Acute Toxicity Estimate       BCF     Bloconcentration factor       BLV     Biological limit value       BDD     Biochenical oxygen demand (BOD)       COD     Chemical oxygen demand (COD)       DMEL     Derived Minimal Effect level       DNEL     Derived Minimal Effect level       EC-No.     European Community number       EC50     Median effective concentration       EN     European Community number       EC50     Median effective concentration       EN     European Stendard       International Agency for Research on Cancer       IATA     International Agritime Dangerous Goods       LOS0     Median lethal concentration       ID50     Median lethal dose       LOAEL     Lowest Observed Adverse Effect Level       NOAEL     No-Observed Adverse Effect Level       NOEC     No-Observed Effect Concentration <th>ADN</th> <th>European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</th>	ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
BCF         Bioconcentration factor           BLV         Biological limit value           BCD         Biochemical oxygen demand (BOD)           COD         Chemical oxygen demand (COD)           DMEL         Derived Minimal Effect level           DNEL         Derived-No Effect Level           EC-No.         European Community number           ECS0         Midan effective concentration           EN         European Standard           IARC         International Agency for Research on Cancer           IATA         International Air Transport Association           IMDG         International Air Transport Association           IDS0         Median lethal concentration           LCS0         Median lethal concentration           LDS0         Median lethal dose           LOAEL         Lowest Observed Adverse Effect Level           NOAEC         No-Observed Effect Concentration           NOAEC         No-Observed Effect Concentration           OECD         Organisation for Economic Co-operation and Development           OEL         Occupational Exposure Limit           PBT         Persistent Bioaccumulative Toxic           PNEC         Predicted No-Effect Concentration           RID         Regulations concerning the International C	ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
BLV         Biological limit value           BOD         Biochemical oxygen demand (BOD)           COD         Chemical oxygen demand (COD)           DMEL         Derived Minimal Effect level           DNEL         Derived-No Effect Level           EC-No.         European Community number           EC60         Median effective concentration           EN         European Standard           IARC         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IATA         International Admitime Dangerous Goods           LC50         Median lethal concentration           DD50         Median lethal dose           LCAEL         Lowest Observed Adverse Effect Level           NOAEC         No-Observed Adverse Effect Level           NOAEC         No-Observed Effect Loncentration           OECD         Organisation for Economic Co-operation and Development           OEL         Occupational Exposure Limit           PBT         Persistent Bioaccumulative Toxic           PREC         Predicted No-Effect Concentration           RID         Regulations concerning the International Carrinage of Dangerous Goods by Rail	ATE	Acute Toxicity Estimate	
BOD         Biochemical oxygen demand (BOD)           COD         Chemical oxygen demand (COD)           DMEL         Derived Minimal Effect level           DNEL         Derived-No Effect Level           EC-No.         European Community number           ECS0         Median effective concentration           EN         European Standard           IARC         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IATA         International Agency for Research on Cancer           IATA         International Air Transport Association           IMDG         International Air Transport Association           IADS         Median lethal dose           LOAEL         Lowest Observed Adverse Effect Level           NOAEC         No-Observed Adverse Effect Level           NOAEL         No-Observed Adverse Effect Level           NOEC         No-Observed Adverse Effect Level           OEL         Occupational Exposure Limit           PB	BCF	Bioconcentration factor	
CODChemical oxygen demand (COD)DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardARCInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median effective concentrationIMDGInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD60Median lethal concentrationDNELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAELNo-Observed Adverse Effect LevelOCCVoganisation for Economic Co-operation and DevelopmentOELOccupational Effect ConcentrationPDTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetSTPSevage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPVBVary Persistent and Very Bioaccumulative	BLV	Biological limit value	
DMELDerived Minimal Effect levelDNELDerived-No Effect LevelEC-No.European Community numberEC50Median effective concentrationENEuropean StandardIARCInternational Agency for Research on CancerIATAInternational Agency for Research on CancerIATAInternational Maritime Dangerous GoodsLC50Median lethal concentrationLD50Median lethal concentrationLD50Median lethal doseLOAELLowest Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOAECNo-Observed Adverse Effect LevelNOECOrganisation for Economic Co-operation and DevelopmentOELOccupational Exposure LimitPBTPersistent Bioaccumulative ToxicPNECPredicted No-Effect ConcentrationRIDRegulations concerning the International Carriage of Dangerous Goods by RailSDSSafety Data SheetThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedVPBVery Persistent and Very Bioaccumulative	BOD	Biochemical oxygen demand (BOD)	
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SDSSafety Data SheetSTPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative	PNEC	Predicted No-Effect Concentration	
STPSewage treatment plantThODTheoretical oxygen demand (ThOD)TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative	RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
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TLMMedian Tolerance LimitVOCVolatile Organic CompoundsCAS-No.Chemical Abstract Service numberN.O.S.Not Otherwise SpecifiedvPvBVery Persistent and Very Bioaccumulative	STP	Sewage treatment plant	
VOC       Volatile Organic Compounds         CAS-No.       Chemical Abstract Service number         N.O.S.       Not Otherwise Specified         vPvB       Very Persistent and Very Bioaccumulative	ThOD	Theoretical oxygen demand (ThOD)	
CAS-No.       Chemical Abstract Service number         N.O.S.       Not Otherwise Specified         vPvB       Very Persistent and Very Bioaccumulative	TLM	Median Tolerance Limit	
N.O.S.     Not Otherwise Specified       vPvB     Very Persistent and Very Bioaccumulative	VOC	Volatile Organic Compounds	
vPvB Very Persistent and Very Bioaccumulative	CAS-No.	Chemical Abstract Service number	
	N.O.S.	Not Otherwise Specified	
ED Endocrine disruptor	vPvB	Very Persistent and Very Bioaccumulative	
	ED	Endocrine disruptor	

### Safety Data Sheet

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

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

### The classification complies with

: ATP 12

Safety Data Sheet (SDS)\_EMAL, EU

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.