



Bilby 3D

MATERIAL SAFETY DATA SHEET

Issued in Australia by Bilby 3D Pty Ltd.

The attached Material Data Safety Sheet has been prepared by the manufacturer outside Australia.

In accordance with Australia WHS regulations the following Australian contact details apply

AUSTRALIAN COMPANY DETAILS

Australia the product is imported and distributed by: Bilby 3D Pty Ltd

Mailing Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Head Office Address :

Kingsgrove Business Centre, 7/192 Kingsgrove Rd, Kingsgrove NSW 2208

Contact Phone: 1800 847 333

AUSTRALIAN EMERGENCY CONTACT

Emergency Contact

In the event of an emergency please contact:

Poisons Information Centre 24 Hour Telephone Advice Line on **13 11 26**

Emergency Services: **000**

AUSTRALIAN ISSUE DATA

Date of Issue: 25 March 2025

Raise3D PA11 Black V1 Powder Safety Data Sheet (SDS)

According to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878, Regulation (EC) 1272/2008 amended by Regulation (EU) 2024/2865

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

1.1. Product identifier

Product form: Mixture

Product name: Raise3D PA11 Black V1 Powder

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

1.2.1. Relevant identified uses

Use of the substance/mixture: For Raise3D SLS 3D Printers.

1.2.2. Uses advised against

Restrictions on use: Not available

1.3. Details of the supplier of the safety data sheet

Supplier

Raise3D Technologies Inc.

13310 Pike Road, Stafford, TX 77477

T +1 888 963 9028

hailey.shao@raise3d.com

Importer

Raise3D B. V.

Tenorweg 6, 3363LN, Sliedrecht

T +31 (0)6 23872606

enquiry@raise3d.eu

1.4. Emergency telephone number

+49 (0) 761-270 19234

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified



Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Potential health effects:

Acute exposure: Contact with the product, when handled at high temperatures, can cause serious burns.

Contact with the product, when handled at high temperatures, can cause serious burns.

Inhalation: Possible irritation of respiratory system (by dust inhalation).

At high temperature, products of thermal decomposition can be irritating to respiratory system

Toxic effects cannot be excluded.

Possible irritation of respiratory system (by dust inhalation).

Toxic effects cannot be excluded.

Skin contact: At high temperature, products of thermal decomposition can be irritating to skin.

Eye contact: Possible irritation of eyes (Physical effect of dust).

At high temperature, products of thermal decomposition can be irritating to eyes.

Environmental Effects:

Inert polymer not biodegradable on the basis of its structure.

Physical and chemical hazards:

In the presence of an ignition source: Dust may form explosive mixture in air.

Thermal decomposition giving toxic and corrosive products.

Decomposition products: See chapter 10.

Other:



Results of PBT and vPvB assessment: Based on the available information, it is not possible to conclude on PBT and vPvB criteria according to REACH regulation, annex XIII.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Polyamide 11

Contains additives, including: free-flow agent, present as a nanostructured material composed of aggregates and agglomerates of fused primary particles.

1: See Chapter 14 for the correct shipping name.

2: See regulatory text for applicable exceptions or provisions.

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general: If you feel unwell, seek medical advice.

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

If you feel unwell, seek medical advice.

First-aid measures after skin contact: Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.

First-aid measures after eye contact: Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion: Rinse mouth. If you feel unwell, seek medical advice.

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

Symptoms/effects after inhalation: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure.



Symptoms/effects after skin contact: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Symptoms/effects after eye contact: None under normal conditions. Dust from this product may cause eye irritation.

Symptoms/effects after ingestion: None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard: No fire hazard.

Explosion hazard: No direct explosion hazard.

Hazardous decomposition products in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions: Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures



General measures: Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray.

Avoid dust formation. 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".

Emergency procedures: Evacuate unnecessary personnel.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up: Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

Other information: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.



Precautions for safe handling: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation.

Hygiene measures: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	Keep in a cool, well-ventilated place away from heat.				
Storage conditions	Store locked up. Keep container tightly closed and dry. Protect from moisture.				
Packaging materials	Store always product in container of same material as original container.				
Storage class (LGK, TRGS 510)	LGK 13 - Non-combustible solids				
Joint storage table	LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
	LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
	LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
	LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
	LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13
Joint storage not permitted for	LGK 1, LGK 6.2, LGK 7				
Joint storage with restrictions permitted for	LGK 4.1A, LGK 5.1C				
Joint storage permitted for	LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 4.3, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13				

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

Carbon black	
Belgium - Occupational Exposure Limits	
Local name	Carbone (noir de) # Koolzwart
OEL TWA	3 mg/m ³
Regulatory reference	Koninklijk besluit/Arrêté royal 16/11/2023
Croatia - Occupational Exposure Limits	
Local name	Ugljik-crni
GVI (OEL TWA)	3,5 mg/m ³
KGVI (OEL STEL)	7 mg/m ³
Regulatory reference	Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 148/2023)



Carbon black	
Czech Republic – Occupational Exposure Limits	
Local name	Amorfní uhlík (Carbon Black)
PEL (OEL TWA)	2 mg/m ³ (pro celkovou koncentraci)
Remark	Prachy s převážně nespecifickým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 330/2023 Sb.)
Denmark – Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3,5 mg/m ³
STEL	7 mg/m ³
Remark	K (betyder, at stoffet anses for at kunne være kræftfremkaldende og omfattet af bekendtgørelse om foranstaltninger til forebyggelse af risici ved arbejde med stoffer og materialer, der kan være kræftfremkaldende, mutagene eller reproduktionstoksiske)



Carbon black	
Regulatory reference	BEK nr 1619 af 19/12/2024
Finland - Occupational Exposure Limits	
Local name	Nokimusta
HTP (OEL TWA)	3,5 mg/m ³
HTP (OEL STEL)	7 mg/m ³
Regulatory reference	HTP-ARVOT 2025 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Noir de carbone
VME (OEL TWA)	3,5 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf. : INRS ED 6443, 2022; Outil65)



Carbon black	
Greece – Occupational Exposure Limits	
Local name	Α ι θ ά λ η
OEL TWA	3,5 mg/m ³
OEL STEL	7 mg/m ³
Regulatory reference	Π. Δ. 90/1999 – Π ρ ο σ τ α σ ί α τ η ς υ γ ε ί α ς τ ω ν ε ρ γ α ζ ο μ έ ν ω ν π ο υ ε κ τ ί θ ε ν τ α ι σ ε ο ρ ι σ μ έ ν ο υ ς χ η μ ι κ ο ύ ς π α ρ ά γ ο ν τ ε ς κ α τ ά τ η δ ι ά ρ κ ε ι α τ η ς ε ρ γ α σ ί α ς τ ο υ ς
Hungary – Occupational Exposure Limits	
Local name	Ipari korom [„Carbon Black”]
AK (OEL TWA)	3 mg/m ³ belélegezhető koncentráció
Regulatory reference	5/2020. (II. 6.) ITM rendelet – A kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről



Carbon black	
Ireland – Occupational Exposure Limits	
Local name	Carbon black
OEL TWA	3 mg/m ³ I (Inhalable Fraction)
Remark	Advisory OELV (Advisory Occupational Exposure Limit Values)
Regulatory reference	Chemical Agents Code of Practice 2024
Poland – Occupational Exposure Limits	
Local name	Sadza techniczna
NDS (OEL TWA)	4 mg/m ³ frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikająca przez nos i usta, która stwarza zagrożenie dla zdrowia po zdeponowaniu w drogach oddechowych.
Regulatory reference	Dz. U. 2024 poz. 1017 wraz z późn. zm.



Carbon black	
Portugal - Occupational Exposure Limits	
Local name	Carbono, preto (Negro de fumo)
OEL TWA	3,5 mg/m ³ I (Fração inalável)
Remark	A3 (Agente carcinogénico confirmado nos animais de laboratório con relevância desconhecida no Homem)
Regulatory reference	Norma Portuguesa NP 1796:2014
Spain - Occupational Exposure Limits	
Local name	Negro de humo
VLA-ED (OEL TWA)	3,5 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2025. INSHT
United Kingdom - Occupational Exposure Limits	
Local name	Carbon black



Carbon black	
WEL TWA (OEL TWA)	3,5 mg/m ³
WEL STEL (OEL STEL)	7 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
Iceland – Occupational Exposure Limits	
Local name	Kolefni
OEL TWA	3,5 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway – Occupational Exposure Limits	
Local name	Carbon Black (lampesot)
Grenseverdi (OEL TWA)	3,5 mg/m ³
Regulatory reference	FOR-2024-04-05-581

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:

Wear recommended personal protective 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

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	Black.
Appearance	Powder.
Odour	odourless.
Odour threshold	Not available
Melting point	>180 ° C
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	467 ° C
Decomposition temperature	> 350 ° C
pH	Not available
pH solution	Not available
Viscosity, kinematic	Not applicable



Water solubility	insoluble, (on the basis of its structure) at 20 ° C
Partition coefficient n-octanol/water (Log Kow)	Not available
Vapour pressure	Not available
Vapour pressure at 50° C	Not available
Density	approximately 1.010 kg/m ³ True volume mass
Relative density (Water=1)	1,01
Relative vapour density at 20° C	Not applicable
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

In the presence of an ignition source: Dust may form explosive mixture in air.

10.4. Conditions to avoid

Temperatures above 60 ° C



(to maintain the technical properties of the product).

Store away from moisture and heat to maintain the technical properties of the product. Remove all sources of ignition.

10.5. Incompatible materials

Strong acids and oxidizing agents

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

Carbon black

Skin corrosion/irritation: Not classified

Serious eye damage/irritation: Not classified

Respiratory or skin sensitisation: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity: Not classified

STOT-single exposure: Not classified

STOT-repeated exposure: Not classified

Aspiration hazard: Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties



Adverse health effects caused by endocrine disrupting properties: The substance/mixture has no endocrine disrupting properties.

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology – general: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute): Not classified

Hazardous to the aquatic environment, long-term (chronic): Not classified

Carbon black

Fish: Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

Aquatic invertebrates: Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

Aquatic plants: Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

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 assessment

Raise3D PA11 Black V1 Powder



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

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

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties: The substance/mixture has no endocrine disrupting properties.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation: Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector’s sorting instructions.

Sewage disposal recommendations: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.

Additional information: Do not re-use empty containers.

SECTION 14: Transport information

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

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				

Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport: Not regulated

Transport by sea: Not regulated

Air transport: Not regulated

Inland waterway transport: Not regulated

Rail transport: Not regulated

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 2024/590 on substances that deplete the ozone layer)

Explosives Precursors Regulation (EU 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 (EC 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**Germany**

Employment restrictions: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK): WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).



Override matching entry (12. BImSchV): Is not subject to the Major Accidents Ordinance (12. BImSchV)

Netherlands

ABM category: A(4) – low hazard for aquatic organisms, may have longterm hazardous effects in aquatic environment

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

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

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

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

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

Denmark

Danish National Regulations: The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

Switzerland

Storage class (LK): NG – Non-hazardous

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

INVENTORIES: European union/EEA: In the event of purchase from an Arkema legal entity based in the European Economic Area (EEA), it is established that this product complies with the registration provisions of REACH Regulation (EC) No. 1907/2006, given that all of its components are excluded, exempted and / or registered. If purchasing from a legal entity established outside the EEA, please contact your local representative for more information. TSCA (USA): The components of this product are all on the TSCA Inventory

NDSL (Canada): All components of this product are on the Canadian DSL

IECSC (CN): All components of this product are listed or exempted

ENCS (JP): All components of this product are listed or exempted



ISHL (JP): All components of this product are listed or exempted

KECI (KR): All components of this product are listed or exempted

PICCS (PH): All components of this product are listed or exempted

NZIOC (NZ) : All components of this product are listed or exempted

AIIC: All components of this product are listed or exempted

TCSI: All components of this product are listed or exempted

SECTION 16: Other information

Abbreviations and acronyms:	
ACGIH	American Conference of Government 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
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)



Abbreviations and acronyms:	
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer



Abbreviations and acronyms:	
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N. O. S.	Not Otherwise Specified



Abbreviations and acronyms:	
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety & Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit



Abbreviations and acronyms:	
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Disclaimer:

The information in this Safety Data Sheet (SDS) applies only to the specified product. Unless otherwise specified, it does not apply to mixtures of this product with other substances. This Safety Data Sheet (SDS) is based on currently available information and the author assumes no responsibility for its continued currency. This Safety Data Sheet (SDS) is intended solely for properly trained personnel operating this product. Users of this Safety Data Sheet (SDS) must independently determine its applicability under specific conditions of use. The author of the SDS assumes no responsibility for any injuries resulting from the use of this Safety Data Sheet (SDS) under specific circumstances. Each user should carefully read the contents of this Safety Data Sheet (SDS) before operating the product. For further information to ensure a proper evaluation, please contact the product supplier. 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.

