

Safety Data Sheet

High Detail Apricot V1 Resin

Safety data sheet according to Regulation (EU) 2020/878 as amended from time to time

Date / Revised: 19.03.2025 Version: 2.4

Date previous version: 26.06.2024 Version: 2.3

Date / First version: 23.07.2023 Version: 1.0

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

1.1. Product identifier

Product Form Mixture

Product Name Raise3D High Detail Apricot V1 Resin

UFI Number 5W3A-S9U3-5TKD-M8KQ

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 Raise3D DLP 3D printers

1.2.2. Uses advised against

Restrictions on use No information available

1.3. Details of the supplier of the safety data sheet

Supplier Importer
Raise 3D Technologies, Inc. Raise3D B.V.

13310 Pike Road, Stafford, TX Tenorweg 6, Sliedrecht

77477, USA 3363 LN

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T +1 888 963 9028 The Netherlands sds@raise3d.com enquiry@raise3d.eu

1.4. Emergency number

Emergency number +49(0) 761-270 19234

SECTION 2. Hazards Identification

2.1. Hazardous substances and mixtures

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

Skin corrosion/irritation Category 2

Skin sensitization Category 1

Reproductive toxicity Category 2

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

Hazardous to the aquatic environment - Chronic Hazard

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. Suspected of damaging fertility or the unborn child. Toxic to aquatic life with long lasting effects.

Category 2

2.2. Label elements

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

Hazard pictograms (CLP)







Signal word (CLP)

Warning

Hazard statements (CLP)

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H361	Suspected of damaging fertility or the unborn child.
H411	Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

P203	Obtain, read and follow all safety instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P263	Avoid contact during pregnancy/while nursing.
P264	Wash hand thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of work
	place.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection or face protection.
P318	If exposed or concerned, get medical advice.
P302 + P352	IF ON SKIN: Get medical help
P332 + P317	If skin irritation occurs: Get medical help.
P333 + P317	If skin irritation or rash occurs: Get medical help.
P362 + P364	Take off contaminated clothing and wash if before reuse.
P391	Collect spillage.
P405	Store locked up.
P501	Dispose of contents and container to hazardous or special waste
	collection point.

EUH-statements

2.3. Other hazards

Other hazards which do not result in classification: No information available.

None.

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

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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 is 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]
Epoxy acrylic hybrid resins EAD-100	CAS-No.: 55818-57-0	≥ 43 - < 48	Skin Sens. 1, H317 Aquatic Chronic 2, H411
PO2-NPGD	CAS-No.: 84170-74-1 EC-No.: 617-546-6	≥ 27 - < 31	Skin Sens. 1B, H317 Aquatic Chronic 2, H411
(5-Ethyl-1,3-dioxan-5-yl)methylacrylat	CAS-No.: 66492-51-1 EC-No.: 266-380-7	≥ 15 - < 20	Skin Irrit. 2, H315 Skin Sens. 1B, H317 Aquatic Chronic 2, H411
Diphenyl(2,4,6-trimethylbenzoyl)phosphine	CAS-No.: 75980-60-8	5	Skin Sens. 1B, H317
oxide	EC-No.: 178-355-8		Repr. 2 (fertility), H361 Repr. 2 (unborn child), H361 Aquatic Chronic 2, H411

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

Call a poison center or a doctor if you feel unwell.

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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 or rash

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 effects, both acute and delayed

Symptoms/effects Causes skin irritation. May cause an allergic skin

reaction. Causes serious eye damage. May cause

respiratory irritation.

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 Water spray. Dry powder. Foam. Carbon dioxide.

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 Toxic fumes may be released.

case of fire

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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. Avoid all unnecessary exposure. Avoid

inhalation of vapours. Wear personal protective

equipment.

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

6.1.1. For non-emergency personnel

Protective equipment Wear recommended personal protective

equipment.

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".

Emergency procedures Evacuate unnecessary personnel. Stop leak if safe

to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

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For containment Collect spillage. Contain any spills with dikes or

absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if

possible.

Methods for cleaning up Take up liquid spill into absorbent material.

Other information Dispose of materials or solid residues at an

authorized site.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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.

Contaminated work clothing should not be allowed out of the workplace. 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. Store in a well-ventilated place.

Keep container tightly closed. Avoid high

temperatures.

Incompatible materials No information available.

Packaging materials Store always product in container of same material

as original container.

7.3. Specific end use(s)

SDS section 1.2.1 - Additional text

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

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

8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

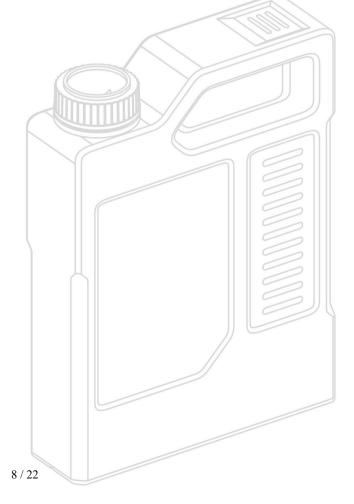
Wear suitable protective clothing

Hand protection:

Protective gloves

8.2.2.3. Respiratory protection

Respiratory protection:



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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 Liquid

Colour Apricot

Odour Slight odour

Odour threshold Not available

Melting point -60 °C

Freezing point Not available

Boiling point 140 °C

Flammability Not flammable

Lower explosion limit Not available

Upper explosion limit Not available

Flash point > 250 °C

Auto-ignition temperature Not available

Decomposition temperature > 250 °C

pH 6,8 – 7,2

Viscosity, kinematic Not available

Viscosity, dynamic 150 – 300 mPa·s @ 25 °C

Solubility Slightly soluble in water. Soluble in benzene, alcohol,

others. Soluble in other organic solvents.

Partition coefficient Not available

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n-octanol/water (Log Kow)

Vapour pressure < 0,01 mm Hg

Vapour pressure at 50°C Not available

Density 1,05 g/cm³ @ 25 °C

Relative density Not available

Relative vapour density at 20°C Not available

Particle characteristics Not applicable

Self-igniting > 450 °C

Vapour density > 1 g/m³

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).

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10.5. Incompatible materials

No information available.

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. Acute toxicity

Based on available data, the classification criteria are not met, yet still harm in ingesting small amounts.

11.2. Skin irritation:

Skin contact causes irritation.

11.3. Eye irritation:

Based on available data, the classification criteria are not met.

11.4. Respiratory/Skin sensitization:

Sensitization after skin contact possible.

11.5. Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

11.6. Carcinogenicity:

Based on available data, the classification criteria are not met.

11.7. Reproductive toxicity:

Information on: diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

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Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

11.8. Specific target organ toxicity (single exposure):

Based on available data, the classification criteria are not met.

11.9. Repeated dose toxicity and Specific target organ toxicity (repeated exposure):

Repeated oral exposure may affect certain organs.

11.10. Aspiration hazard:

With low volatility in the normal service condition, the product are not expected to cause obvious symptoms. But it may generate gases/vapours after heating up, which results in respiratory irritation, including cough, secreting mucus, polypnea.

11.11. Information on other hazards

11.11.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties

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 is 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 %

11.11.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Assessment of aquatic toxicity:

Acutely toxic for aquatic organisms. May cause long-term adverse effects in the aquatic

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environment. The product has not been tested. The statement has been derived from the properties

of the individual components.

PO2-NPGDA propoxylated neopentyl glycol diacrylate (84170-74-1)

Assessment of aquatic toxicity Acutely toxic for aquatic organisms. The inhibition

of the degradation activity of activated sludge is not anticipated when introduced to biological

treatment plants in appropriate low

concentrations.

(5-ethyl-1,3-dioxan-5-yl)methyl acrylate (66492-51-1)

Assessment of aquatic toxicity Acutely toxic for aquatic organisms. The inhibition

of the degradation activity of activated sludge is

not anticipated when introduced to biological

treatment plants in appropriate low

concentrations.

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

Assessment of aquatic toxicity Acutely toxic for aquatic organisms. The inhibition

of the degradation activity of activated sludge is

not anticipated when introduced to biological

treatment plants in appropriate low

concentrations.

12.2. Persistence and degradability

Raise3D High Detail Apricot V1 Resin

Persistence and degradability Not readily biodegradable

Epoxy acrylic hybrid resins EAD-100 (55818-57-0)

Persistence and degradability Rapidly degradable

PO2-NPGD (84170-74-1)

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Persistence and degradability

Rapidly degradable

(5-Ethyl-1,3-dioxan-5-yl)methylacrylat (66492-51-1)

Persistence and degradability Rapidly degradable

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (75980-60-8)

Persistence and degradability Not readily biodegradable.

12.3. Bio accumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties

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 is 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 %.

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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 Dispose in a safe manner in accordance with

recommendations local/national regulations.

SECTION 14: Transport information

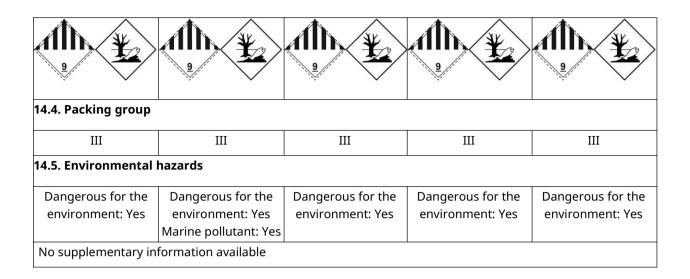
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN-Nummer or	ID-Nummer			
UN 3082	UN 3082	UN 3082	UN 3082	UN 3082
14.2. UN proper shipր	oing name			
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	Environmentally hazardous substance, liquid,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,	1 1 11111111111111111111111111111111111
N.O.S. ((5-ethyl-1,3-dioxan-5- yl)methyl acrylate ; Diphenyl(2,4,6-trimet hylbenzoyl)phosphine oxide)	yl)methyl acrylate ; Diphenyl(2,4,6-trimet	n.o.s. ((5-ethyl-1,3-dioxan-5 -yl)methyl acrylate; Ethyl (2,4,6- trimethylbenzoyl) phenylphosphinate)	N.O.S. ((5-ethyl-1,3-dioxan-5 -yl)methyl acrylate; Diphenyl(2,4,6-trimet hylbenzoyl)phosphin e oxide)	-yl)methyl acrylate ; Diphenyl(2,4,6-trimet
Transport document	description			
UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate; Diphenyl(2,4,6-trime thylbenzoyl)phosphi ne oxide), 9, III, (-)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5-yl)methyl acrylate; Diphenyl(2,4,6-trime thylbenzoyl)phosphi ne oxide), 9, III, MARINE POLLUTANT	UN 3082 Environmentally hazardous substance,liquid, n.o.s. ((5-ethyl-1,3-dioxan-5 -yl)methyl acrylate; Diphenyl(2,4,6-trimet hylbenzoyl)phosphin e oxide), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((5-ethyl-1,3-dioxan-5- yl)methyl acrylate; Diphenyl(2,4,6-trimet hylbenzoyl)phosphine oxide), 9, III	yl)methyl acrylate ; Diphenyl(2,4,6-trimet
14.3. Transport hazar	rd class(es)			
9	9	9	9	9

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14.6. Special precautions for user

Overland transport	
Classification code (ADR)	M6
Special provisions (ADR)	274, 335, 375, 601
Limited quantities (ADR)	5L
Excepted quantities (ADR)	E1
Packing instructions (ADR)	P001, IBC03, LP01, R001
Special packing provisions (ADR)	PP1
Mixed packing provisions (ADR)	MP19
Portable tank and bulk container	T4
instructions (ADR)	
Portable tank and bulk container special	TP1, TP29
provisions (ADR)	
Tank code (ADR)	LGBV
Vehicle for tank carriage	AT
Transport category (ADR)	3
Special provisions for carriage -	V12
Packages (ADR)	
Special provisions for carriage - Loading,	CV13

16/22

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unloading and handling (ADR)

Hazard identification number (Kemler

90

No.)

Orange plates

90 3082

Tunnel restriction code (ADR)

EAC-Code •3Z

Transport by sea

Special provisions (IMDG) 274, 335, 969

Limited quantities (IMDG) 5 L

Excepted quantities (IMDG) E1

Packing instructions (IMDG) LP01, P001

Special packing provisions (IMDG) PP1

Tank instructions (IMDG)

IBC packing instructions (IMDG)

Tank special provisions (IMDG)

EmS-No. (Fire)

EmS-No. (Spillage)

Stowage category (IMDG)

Air transport

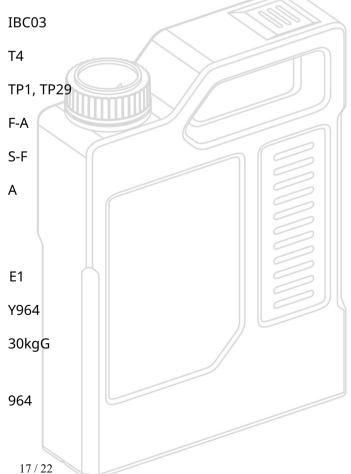
PCA Excepted quantities (IATA)

PCA Limited quantities (IATA)

PCA limited quantity max net quantity

(IATA)

PCA packing instructions (IATA)



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PCA max net quantity (IATA) 450L

CAO packing instructions (IATA) 964

CAO max net quantity (IATA) 450L

Special provisions (IATA) A97, A158, A197, A215

ERG-Code (IATA) 9L

Inland waterway transport

Classification code (ADN) M6

Special provisions (ADN) 274, 335, 375, 601

Limited quantities (ADN) 5 L

Excepted quantities (ADN) E1

Carriage permitted (ADN) T

Equipment required (ADN) PP

Number of blue cones/lights (ADN) 0

Rail transport

Limited quantities (RID)

Classification code (RID) M6

Special provisions (RID) 274, 335, 375, 601

Excepted quantities (RID) E1

Packing instructions (RID) P001, IBC03, LP01, R001

Special packing provisions (RID) PP1

Mixed packing provisions (RID) MP19

Portable tank and bulk container

instructions (RID)

Portable tank and bulk container special

provisions (RID)

TP1, TP29

T4

5L

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Tank codes for RID tanks (RID) LGBV

Transport category (RID) 3

Special provisions for carriage – W12

Packages (RID)

Special provisions for carriage - Loading, CW13, CW31

unloading and handling (RID)

Colis express (express parcels) (RID) CE8

Hazard identification number (RID) 90

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 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 lay er)

Explosives Precursors Regulation (2019/1148)

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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)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviatio	Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bio concentration factor	
BLV	Biological limit value	
BOD	Biochemical oxygen demand (BOD)	
Abbreviations and acronyms:		
COD	Chemical oxygen demand (COD)	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EG-No.	European Community number	
EC50	Median effective concentration	
EN	European Standard	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Lethal concentration for 50% of a test population	

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LD50	Lethal dose for 50% of a test population (Median lethal dose)
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organization for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bio accumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDB	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service - Number
N.A.G.	Not Otherwise Specified
vPvB	Very Persistent and Very Bio accumulative
ED	Endocrine disrupting properties
Data sources	LOUI ECHA reference

Data sources LOLI. ECHA reference.

Training advice Normal use of this product shall imply use in accordance with the instructions on the packaging.

Other information No information available.

Full text of H- and EUH-statements:		
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H361	1 Suspected of damaging fertility or the unborn child.	
H411	Toxic to aquatic life with long lasting effects.	

Any other intended applications should be discussed with the manufacturer.

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The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. However, we do not have any express or implied warranties regarding the data provided. The handling, storage, use or disposal of this product is may be beyond our control and knowledge. Under no circumstances will we be liable for loss, damage or related costs arising from improper handling, storage, use or disposal of this product. This safety data sheet is written based on this product and may only be applied to this product.

The end

