

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

Issue date: 5/2/2024 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : Hranitherm 320 PUR LC UFI : 4HU2-N04P-300M-TWAN

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use

Use of the substance/mixture : Hot melt adhesives

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

 Distributor
 Supplier

 Hranipex Czech Republic k.s.
 Hranipex Ltd.

J. Rýznerové 97, Komorovice

Unit 2 Radial Park, Birmingham Business Park

CZ 396 01 Humpolec Birmingham, B37 7YN
Czech Republic United Kingdom

T +420 565 501 211 T +44 121 767 9180, F 0121 782 6250

cz-hranipex@hranipex.com, www.hranipex.cz uk-hranipex@hranipex.com, www.hranipex.co.uk

 $\ensuremath{\mathsf{E}}\text{-}\ensuremath{\mathsf{mail}}$ address of competent person responsible for the SDS :

sds@regartis.com

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Cardiff Centre) University Hospital Llandough	Penlan Road CF64 2XX	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Edinburgh Centre) Royal Infirmary of Edinburgh	Little France Crescent EH16 4SA	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	
United Kingdom	National Poisons Information Service (Newcastle Centre) Regional Drugs and Therapeutics Centre	16/17 Framlington Place Newcastle-upon-Tyne NE2 4AB	0344 892 0111	Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin sensitisation, Category 1 H317

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

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Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction.

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP) : Warning

Contains : Aromatic isocyanates - prepolymers; 2,4-bis[(dodecylsulfanyl)methyl]-6-methylphenol; o-(p-

isocyanatobenzyl)phenyl isocyanate; 4-methyl-m-phenylene diisocyanate

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.

Precautionary statements (CLP) : P261 - Avoid breathing dust, mist.

P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

2.3. Other hazards

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

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]
Aromatic isocyanates - prepolymers	CAS-No.: 127821-00-5	2.4 – 4	Eye Irrit. 2, H319 Skin Sens. 1, H317
2,4-bis[(dodecylsulfanyl)methyl]-6-methylphenol	CAS-No.: 110675-26-8 EC-No.: 438-600-3 REACH-no: 01-0000018334-73	0.1 – 0.5	Skin Sens. 1, H317 Aquatic Chronic 3, H412
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005-00-9 REACH-no: 01-2119480143-45	< 0.1	Carc. 2, H351 Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) STOT RE 2, H373 Eye Irrit. 2, H319 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317



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Issue date: 5/2/2024 Version: 1.0 **Product identifier** % Classification according to Name Regulation (EC) No. 1272/2008 CAS-No.: 584-84-9 4-methyl-m-phenylene diisocyanate; toluene-2,6-di-< 0.05 Carc. 2, H351 Acute Tox. 2 (Inhalation), H330 isocvanate FC-No.: 209-544-5 EC Index-No.: 615-006-00-4 Eye Irrit. 2, H319 REACH-no: 01-2119486974-18 STOT SE 3, H335 Skin Irrit. 2, H315 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 3, H412

Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate	CAS-No.: 5873-54-1 EC-No.: 227-534-9 EC Index-No.: 615-005-00-9 REACH-no: 01-2119480143-45	$(0.1 \le C < 100)$ Resp. Sens. 1, H334 $(5 \le C < 100)$ Eye Irrit. 2, H319 $(5 \le C < 100)$ Skin Irrit. 2, H315 $(5 \le C < 100)$ STOT SE 3, H335
4-methyl-m-phenylene diisocyanate; toluene-2,6-di- isocyanate	CAS-No.: 584-84-9 EC-No.: 209-544-5 EC Index-No.: 615-006-00-4 REACH-no: 01-2119486974-18	(0.1 ≤ C ≤ 100) Resp. Sens. 1, H334

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 : If you feel unwell, seek medical advice.

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

symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Take off immediately all contaminated clothing and wash it before reuse. In case the melted

product gets on skin, cool immediately with cold water. . Do not remove clothing adhering to

the skin. If case of redness or irritation, call a doctor.

First-aid measures after eye contact : Cool rapidly with cold water after contact with molten product. Consult an eye specialist.

First-aid measures after ingestion : Do not induce vomiting. Call a poison center or a doctor if you feel unwell. If possible, show the doctor this safety data sheet. Failing this, show the doctor the packaging or label.

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

Symptoms/effects after skin contact

Symptoms/effects after eye contact

Symptoms/effects after eye contact

Symptoms/effects after ingestion

Symptoms/effects after skin contact

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 : Water. Carbon dioxide.

Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

Reactivity in case of fire : Fire will produce dense black smoke.



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Hazardous decomposition products in case of fire

Toxic fumes may be released. Do not breathe fumes from fires or vapours from decomposition.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. If possible, remove the products within

undamaged containers from danger area. Do not allow run-off from fire fighting to enter

drains or water courses.

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

breathing apparatus. Complete protective clothing. Normal equipment for firefighters i.e. fire kit (EN 469), gloves (EN 659) and boots (HO specification A29 and A30) in combination with

breathing apparatus (EN 137).

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. Avoid contact with skin and eyes. Avoid breathing dust, mist.

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

Do not allow the mixture to enter into sewer, water system (underground water, surface water) or soil. If the product contaminates rivers and lakes or drains, inform respective authorities.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : If melted: allow liquid to solidify before taking it up. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. Wash off with plenty of water.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Avoid

breathing dust, mist. Wear personal protective equipment. Handle and open container with

care.

Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. 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 in a dry, cool and well-ventilated place. Protect from heat and direct sunlight.

7.3. Specific end use(s)

No additional information available

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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

o-(p-isocyanatobenzyl)phenyl isocyan	ate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	0.1 mg/m³	
Long-term - local effects, inhalation	0.05 mg/m³	
DNEL/DMEL (General population)	<u> </u>	
Acute - local effects, inhalation	0.05 mg/m³	
Long-term - local effects, inhalation	0.025 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	3.7 µg/L	
PNEC aqua (marine water)	0.37 μg/L	
PNEC aqua (intermittent, freshwater)	37 μg/L	
PNEC (Sediment)		
PNEC sediment (freshwater)	11.7 mg/kg dwt	
PNEC sediment (marine water)	1.17 mg/kg dwt	
PNEC (Soil)		
PNEC soil	2.33 mg/kg dwt	
4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate (584-84-9)		
DNEL/DMEL (General population)		
Acute - local effects, inhalation	0.14 mg/m³	
Long-term - local effects, inhalation	0.035 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.013 mg/l	
PNEC aqua (marine water)	0.00125 mg/l	
PNEC (Soil)		
PNEC soil	1 mg/kg dwt	
PNEC (STP)	·	
PNEC sewage treatment plant	1 mg/l	

8.1.5. Control banding

No additional information available



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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:

Use eye protection according to EN 166. tightly fitting safety goggles

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable coveralls to prevent exposure to the skin. Safety shoes

Hand protection:

Chemical resistant gloves (according to European standard ISO 374-1 or equivalent). Butyl rubber. Nitrile rubber. Neoprene. PVC gloves

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

8.2.2.4. Thermal hazards

Thermal hazard protection:

Use insulated gloves when handling this material hot.

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Always wash hands after handling the product. Avoid contact with skin and eyes. Remove all contaminated clothing and footwear. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Colour : Natural colour. Odour : Not available Odour threshold Not available Melting point Not available Freezing point Not applicable Boiling point Not available Flammability Non flammable. Lower explosion limit Not applicable Upper explosion limit Not applicable Flash point Not applicable Not applicable Auto-ignition temperature Decomposition temperature : Not available : Not available рΗ pH solution : Not available

Viscosity, kinematic Not applicable 60000 mPa·s @140 °C Viscosity, dynamic : Reacts with water. Solubility 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 : Not available

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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

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

Serious eye damage/irritation Respiratory or skin sensitisation

Germ cell mutagenicity

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 (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

2,4-bis[(dodecylsulfanyl)methyl]-6-methylphenol (110675-26-8)		
LD50 oral rat	> 5000 mg/kg OECD 401	
LD50 dermal rabbit	> 2000 mg/kg OECD 402	
o-(p-isocyanatobenzyl)phenyl isocyanate; dip	henylmethane-2,4'-diisocyanate (5873-54-1)	
LD50 oral rat	> 2000 mg/kg Directive 84/449/EEC, B.1	
LD50 dermal rabbit	> 9400 mg/kg OECD 402	
4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate (584-84-9)		
LD50 oral rat > 2000 mg/kg OECD 401		
LD50 dermal rabbit	> 2000 mg/kg OECD 402	
.C50 Inhalation - Rat 0.48 mg/l OECD 403		
Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)		

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: May cause an allergic skin reaction.

: Not classified (Based on available data, the classification criteria are not met)

: Not classified (Based on available data, the classification criteria are not met)



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Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)	
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)	
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)	
o-(p-isocyanatobenzyl)phenyl isocyanate;	diphenylmethane-2,4'-diisocyanate (5873-54-1)	
STOT-single exposure	May cause respiratory irritation.	
4-methyl-m-phenylene diisocyanate; tolue	ne-2,6-di-isocyanate (584-84-9)	
STOT-single exposure	May cause respiratory irritation.	
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)	
o-(p-isocyanatobenzyl)phenyl isocyanate;	diphenylmethane-2,4'-diisocyanate (5873-54-1)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.	
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)	
Hranitherm 320 PUR LC		

Not applicable

11.2. Information on other hazards

11.2.1. 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 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 %

11.2.2. Other information

Viscosity, kinematic

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)

: Not classified (Based on available data, the classification criteria are not met)

Hazardous to the aquatic environment, long-term (chronic)

: Not classified (Based on available data, the classification criteria are not met)

(cnronic)	
2,4-bis[(dodecylsulfanyl)methyl]-6-methylphenol (110675-26-8)	
> 10 mg/l	
> 10 mg/l	
> 10 mg/l	
o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
3.7 mg/l (Daphnia Magna)	
10 mg/l 21d Daphnia magna, OECD TG201	
4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate (584-84-9)	
LC50 - Fish [1] 133 mg/l	
12.5 mg/l OECD TG 202	

12.2. Persistence and degradability

2,4-bis[(dodecylsulfanyl)methyl]-6-methylphenol (110675-26-8)	
Persistence and degradability	Not readily biodegradable.



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O-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)

Persistence and degradability

The product is not biodegradable.

Biodegradation

0 % (OECD 302 C)

4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate (584-84-9)

Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate (5873-54-1)	
BCF - Fish [1] 200 Cyprinus Carpio, 28d, OECD 305 E	
Partition coefficient n-octanol/water (Log Pow) 4.52 @ 22°C, pH 7	

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

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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 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 %.

12.7. Other adverse effects

Other adverse effects : No other effects known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

Product/Packaging disposal recommendations

Additional information
HP Code

: Disposal must be done according to official regulations.

Dispose of contents/container in accordance with licensed collector's sorting instructions.

Re-use, when possible. Comply with applicable regulations for solid waste disposal.

Disposal must be done according to official regulations.

: Do not re-use empty containers.

: HP13 - "Sensitising:" waste which contains one or more substances known to cause

sensitising effects to the skin or the respiratory organs.

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 applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	14.2. UN proper shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable



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14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

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)

EU restriction list (REACH Annex XVII)	
Reference code Applicable on	
3(b)	Aromatic isocyanates - prepolymers ; 4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate
3(c)	4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate
56.	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate
56(b)	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate
74.	o-(p-isocyanatobenzyl)phenyl isocyanate; diphenylmethane-2,4'-diisocyanate; 4-methyl-m-phenylene diisocyanate; toluene-2,6-di-isocyanate

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)

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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)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

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

United Kingdom

British National Regulations

: Directive 2008/98/EC of the European Parliament and of the Council on waste and

repealing certain Directives, in the valid wording.

Regulation (EC) No 1013/2006 of the European Parliament and of the Council on shipments

of waste, in the valid wording.

UK Waste Regulations.

UK REACH.

GB CLP.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:	
European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
European Agreement concerning the International Carriage of Dangerous Goods by Road	
Acute Toxicity Estimate	
Bioconcentration factor	
Biological limit value	
Biochemical oxygen demand (BOD)	
Chemical oxygen demand (COD)	
Derived Minimal Effect level	
Derived-No Effect Level	
European Community number	
Median effective concentration	
European Standard	
International Agency for Research on Cancer	
International Air Transport Association	
International Maritime Dangerous Goods	
Median lethal concentration	
Median lethal dose	
Lowest Observed Adverse Effect Level	



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Data sources : ECHA Guidance on the compilation of safety data sheets

ECHA C&L Inventory database. Supplier's safety documents.

Training advice : Provide SDS to employees. Follow general rules on handling chemical substances and/or

mixtures.

Full text of H- and EUF	ull text of H- and EUH-statements:		
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2		
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4		
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3		
Carc. 2	Carcinogenicity, Category 2		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2		
H315	Causes skin irritation.		
H317	May cause an allergic skin reaction.		
H319	Causes serious eye irritation.		
H330	Fatal if inhaled.		
H332	Harmful if inhaled.		
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer.		
H373	May cause damage to organs through prolonged or repeated exposure.		
H412	Harmful to aquatic life with long lasting effects.		
Resp. Sens. 1	Respiratory sensitisation, Category 1		
Skin Irrit. 2	Skin Irrit. 2 Skin corrosion/irritation, Category 2		



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878				
 ssue date: 5/2/2024		Version: 1.0		
Full text of H- and EUH-statements:				
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, Respiratory tract irritation			

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP				
Skin Sens. 1	H317	Calculation method		

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.