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# Hranicoll D4

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Supersedes version of: 8/22/2023

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

#### 1.1. Product identifier

Product form : Mixture Product name Hranicoll D4

#### 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 : adhesives

Function or use category : Adhesives, binding agents

#### 1.2.2. Uses advised against

No additional information available

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

Distributor

Hranipex Czech Republic k.s. J. Rýznerové 97, Komorovice

CZ 396 01 Humpolec Czech Republic

T +420 565 501 211 cz-hranipex@hranipex.com, www.hranipex.cz

E-mail address of competent person responsible for the SDS:

sds@regartis.com

### Supplier

Hranipex Ltd.

Unit 2 Radial Park, Birmingham Business Park

Birmingham, B37 7YN United Kingdom

T+44 121 767 9180, F 0121 782 6250

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

# 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]

Not classified



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Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

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

: EUH208 - Contains formaldehyde ...%(50-00-0). May produce an allergic reaction. **EUH-statements** 

EUH210 - Safety data sheet available on request.

# 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]
Aluminum chloride, basic	CAS-No.: 1327-41-9 EC-No.: 215-477-2 REACH-no: 01-2119531563- 43-XXXX	1 – 5	Met. Corr. 1, H290 Eye Dam. 1, H318
Propylene carbonate	CAS-No.: 108-32-7 EC-No.: 203-572-1 EC Index-No.: 607-194-00-1 REACH-no: 01-2119537232- 48-XXXX	1 – 5	Eye Irrit. 2, H319
formaldehyde%	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953- 20-XXXX	0.01 – 0.1	Carc. 1B, H350 Muta. 2, H341 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 Skin Corr. 1B, H314 Skin Sens. 1, H317

Specific concentration limits:				
Name	Product identifier	Specific concentration limits (%)		
formaldehyde%	CAS-No.: 50-00-0 EC-No.: 200-001-8 EC Index-No.: 605-001-00-5 REACH-no: 01-2119488953- 20-XXXX	$(0.2 \le C < 100)$ Skin Sens. 1, H317 $(5 \le C < 100)$ STOT SE 3, H335 $(5 \le C < 25)$ Eye Irrit. 2, H319 $(5 \le C < 25)$ Skin Irrit. 2, H315 $(25 \le C < 100)$ Skin Corr. 1B, H314		

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



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

#### 4.1. Description of first aid measures

First-aid measures general : Remove victim to uncontaminated area. Consult a doctor/medical service if you feel unwell.

If possible show this sheet, if not available show packaging or label. Do not leave affected

person unattended.

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

advice/attention if you feel unwell.

First-aid measures after skin contact : Wash skin with plenty of water and soap. 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. Get medical advice/attention.

First-aid measures after ingestion : Rinse mouth out with water. Do NOT induce vomiting. Call a physician immediately.

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

No additional information available

# 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 : Carbon dioxide. Foam. Dry powder. Water fog.

Unsuitable extinguishing media : Strong water jet.

#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon oxides (CO and CO2). Other toxic gases. Exposure to combustion or decomposition

products can be harmful to your health.

#### 5.3. Advice for firefighters

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit. Do not attempt to take

action without suitable protective equipment. Self-contained breathing apparatus. Complete

protective clothing.

Other information : Prevent fire fighting water from entering the environment.

#### **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 : Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Do not touch or

walk on the spilled product. Stop leaks if it can be done without personal risk.

# 6.1.2. For emergency responders

Protective equipment : Do not enter without an appropriate protective equipment. For further information refer to

section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Do not allow the mixture to enter into sewer, water system (underground water, surface water) or soil.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (for example sand, sawdust, a universal binder, silica

gel). Collect all waste in suitable and labelled containers and dispose according to local

legislation. Clear contaminated areas thoroughly.



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#### 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. Carefully

handle the substance to minimise releases. Keep container closed when not in use. Keep

away from food and drink. Wear personal protective equipment.

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

Storage conditions : Store in dry, well-ventilated area. Keep in properly labelled containers. . Keep out of frost.

Opened containers must be carefully closed and kept upright to avoid leakage.

Storage temperature : 5 – 25 °C

Information on mixed storage : Storage class 12.

#### 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

formaldehyde% (50-00-0)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name	Formaldehyde	
IOEL TWA	0.2 ppm	
IOEL STEL	0.4 ppm	
Remark	skin sensitiser. SCOEL Recommendations (2008/Ongoing)	
EU - Binding Occupational Exposure Limit (BOEL)		
Local name	Formaldehyde	
BOEL TWA	0.62 mg/m³ (Limit value for the health care, funeral and embalming sectors until 11 July 2024) 0.37 mg/m³	
	0.3 ppm 0.5 ppm (Limit value for the health care, funeral and embalming sectors until 11 July 2024)	
BOEL STEL	0.74 mg/m³	
	0.6 ppm	
Notes	Dermal sensitisation (The substance can cause sensitisation of the skin)	
Regulatory reference	DIRECTIVE (EU) 2019/983 (amending Directive 2004/37/EC)	
United Kingdom - Occupational Exposure Limits		
Local name	Formaldehyde	
WEL TWA (OEL TWA)	2.5 mg/m³	
	2 ppm	



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formaldehyde% (50-00-	0)		
WEL STEL (OEL STEL)	2.5 n	ng/m³	
	2 ррг	n	
Regulatory reference	EH40	0/2005 (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

8.1.4. DNEL and PNEC		
Aluminum chloride, basic (1327-41-9)		
DNEL/DMEL (Workers)		
Acute - systemic effects, dermal	5.7 mg/kg bodyweight/day	
DNEL/DMEL (General population)		
Acute - systemic effects, oral	3.7 mg/kg bodyweight	
Long-term - systemic effects,oral	0.3 mg/kg bodyweight/day	
PNEC (Water)		
PNEC aqua (freshwater)	0.3 μg/L	
Propylene carbonate (108-32-7)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	20 mg/m³	
Long-term - systemic effects, dermal	50 mg/kg bodyweight/day	
DNEL/DMEL (General population)		
Acute - systemic effects, inhalation	176 mg/m³	
Long-term - systemic effects,oral	25 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	43.5 mg/m³	
Long-term - systemic effects, dermal	25 mg/kg bodyweight/day	
Long-term - local effects, inhalation	10 mg/m³	
PNEC (Water)		
PNEC aqua (freshwater)	0.9 mg/l	
PNEC aqua (marine water)	0.09 mg/l	
PNEC aqua (intermittent, freshwater)	9 mg/l	
PNEC (Soil)		
PNEC soil	0.81 mg/kg dwt	
PNEC (STP)		
PNEC sewage treatment plant	7400 mg/l	
formaldehyde% (50-00-0)		
DNEL/DMEL (Workers)		
Acute - local effects, inhalation	0.8 mg/kg bw/day	
Long-term - systemic effects, dermal	240 mg/kg bodyweight/day	
Long-term - local effects, dermal	0.037 mg/cm <sup>2</sup>	



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formaldehyde% (50-00-0)			
Long-term - systemic effects, inhalation	n §	9 mg/m³	
Long-term - local effects, inhalation	(	).4 mg/kg bw/day	
DNEL/DMEL (General population)			
Long-term - systemic effects,oral	4	I.1 mg/kg bodyweight/day	
Long-term - systemic effects, inhalation	n (	3.2 mg/m³	
Long-term - systemic effects, dermal	•	02 mg/kg bodyweight/day	
Long-term - local effects, dermal	(	0.012 mg/cm²	
Long-term - local effects, inhalation	(	0.1 mg/m³	
PNEC (Water)			
PNEC aqua (freshwater)	(	).47 mg/l	
PNEC aqua (marine water)	(	).47 mg/l	
PNEC (Sediment)	·		
PNEC sediment (freshwater)	2	2.44 mg/kg dwt	
PNEC sediment (marine water)	2	2.44 mg/kg dwt	
PNEC (Soil)			
PNEC soil	(	0.21 mg/kg dwt	
PNEC (STP)	PNEC (STP)		
PNEC sewage treatment plant	(	).19 mg/l	

### 8.1.5. Control banding

No additional information available

# 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

### Appropriate engineering controls:

Provide local exhaust or general room ventilation. A first aid kit with appropriate content must be available.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure. Wear proper protective equipment.

#### 8.2.2.1. Eye and face protection

#### Eye protection:

tightly fitting safety goggles

# 8.2.2.2. Skin protection

### Skin and body protection:

Long sleeved protective clothing. Safety footwear

### Hand protection:

Nitrile-rubber protective gloves. Standard EN 374 - Protective gloves against chemicals. Unsuitable materials. leather gloves

#### 8.2.2.3. Respiratory protection

# Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

#### 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.

#### Other information:

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Wash protective equipment and clothing before reuse. Do not eat, drink or smoke in areas where product is used. Always wash your hands immediately after handling this product, and once again before leaving the workplace.

# **SECTION 9: Physical and chemical properties**

# 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour : White. Odour Not available Odour threshold : Not available Melting point Not applicable Freezing point : ≈ 0 °C **Boiling point** : ≈ 100 °C Flammability : Not applicable Lower explosion limit : Not available Upper explosion limit : Not available

Flash point : > 100 °C ISO 13736 / IP170

Auto-ignition temperature : Not available

Decomposition temperature : Not available

pH : 2.6 - 3.2

Viscosity, kinematic : 54.2 mm²/s

Viscosity, dynamic : 3500 - 8000 mPa·s

Solubility : Miscible with water.

Partition coefficient n-octanol/water (Log Kow)

Vapour pressure

Vapour pressure at 50°C

Density

Relative density

Relative vapour density at 20°C

Particle characteristics

Not available

Not available

Not available

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

Extremely high or low temperatures. Keep out of frost.



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### 10.5. Incompatible materials

No additional 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. 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)

Acute toxicity (inhalation)	Not classified (Based on available data, the classification criteria are not met)
Aluminum chloride, basic (1327-41-9)	
LD50 oral rat	> 2001 mg/kg
LD50 dermal rat	> 2001 mg/kg
Propylene carbonate (108-32-7)	
LD50 oral rat	33520 mg/kg
LD50 dermal rabbit	≥ 2001 mg/kg
formaldehyde% (50-00-0)	
LD50 oral rat	100 mg/kg
LD50 dermal rabbit	270 mg/kg
Skin corrosion/irritation	Not classified (Based on available data, the classification criteria are not met)
Additional information	pH: 2.6 – 3.2 (OECD 439 method)
	Not classified (Based on available data, the classification criteria are not met).
	pH: 2.6 – 3.2
Additional information	(OECD 437 method)
Respiratory or skin sensitisation	Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	Not classified (Based on available data, the classification criteria are not met)
Additional information	(OECD 451 method)
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)
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)
Hranicoll D4	
Viscosity, kinematic	54.2 mm²/s

# 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

No additional information available

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# **SECTION 12: Ecological information**

# 12.1. Toxicity

Ecology - general : Based on available data, the classification criteria are not met.

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

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

hro	

Aluminum chloride, basic (1327-41-9)		
LC50 - Fish [1]	> 1001 mg/l (Brachydanio rerio)	
EC50 - Crustacea [1]	98 mg/l (Dafnie)	
NOEC chronic fish	> 1001 mg/l (Brachydanio rerio)	
Propylene carbonate (108-32-7)		
LC50 - Fish [1]	> 1001 mg/l	
EC50 - Crustacea [1]	> 1001 mg/l	
EC50 72h - Algae [1]	900 mg/l	
formaldehyde% (50-00-0)		
EC50 - Crustacea [1]	5.8 mg/l Daphnia pulex OECD 202	
EC50 72h - Algae [1]	4.89 mg/l Scendedesmus subspicatus OECD 201	

# 12.2. Persistence and degradability

Hranicoll D4		
Persistence and degradability	Not established.	
formaldehyde% (50-00-0)		
Persistence and degradability	Rapidly degradable	
Biodegradation	91 % days	

# 12.3. Bioaccumulative potential

Hranicoll D4		
Bioaccumulative potential	Not established.	

# 12.4. Mobility in soil

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Ecology - soil	Not established.

# 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



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#### 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 : Not known.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Regional waste regulation

Waste treatment methods

vaste treatment methods

Sewage disposal recommendations Product/Packaging disposal recommendations

**Ecological information** 

European List of Waste (LoW, EC 2000/532)

: Disposal must be done according to official regulations.

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

: Do not dispose of waste into sewer. Do not allow into drains or water courses.

: Dispose in a safe manner in accordance with local/national regulations.

: Avoid release to the environment.

: 08 04 10 - waste adhesives and sealants other than those mentioned in 08 04 09

# **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 shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available					

# 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



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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	
28.	formaldehyde%	
3(b)	Aluminum chloride, basic ; Propylene carbonate ; formaldehyde%	
72.	formaldehyde%	
77.	formaldehyde%	

#### **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)

#### **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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP)

### **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. Issue date: 1/13/2018

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#### 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

Indication of changes				
Section	Changed item	Change	Comments	
	Revision date	Modified		
	Supersedes	Modified		

Abbreviations and acronyms:			
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008		
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006		
SDS	Safety Data Sheet		
DNEL	Derived-No Effect Level		
DMEL	Derived Minimal Effect level		
PNEC	Predicted No-Effect Concentration		
LD50	Median lethal dose		
LC50	Median lethal concentration		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
PBT	Persistent Bioaccumulative Toxic		
vPvB	Very Persistent and Very Bioaccumulative		

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

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

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

packaging.

Full text of H- and EUH-statements:		
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3	
Acute Tox. 3 (Inhalation)	Acute toxicity (inhal.), Category 3	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Carc. 1B	Carcinogenicity, Category 1B	
EUH208	Contains formaldehyde%(50-00-0). May produce an allergic reaction.	
EUH210	Safety data sheet available on request.	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	



according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Revision date: 5/21/2024 Supersedes version of: 8/22/2023 Version: 4.3

ssue date: 1/13/2018	according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  Revision date: 5/21/2024 Supersedes version of: 8/22/2023	Version: 4.3
Full text of H- and	EUH-statements:	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
H290	May be corrosive to metals.	
H301	Toxic if swallowed.	
H311	Toxic in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H331	Toxic if inhaled.	
H335	May cause respiratory irritation.	
H341	Suspected of causing genetic defects.	
H350	May cause cancer.	
Met. Corr. 1	Corrosive to metals, Category 1	
Muta. 2	Germ cell mutagenicity, Category 2	
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1	Skin sensitisation, Category 1	
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation	

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.