DIRKO™ HT Black

Safety Data Sheet

according to Regulation (EU) 2020/878

Date of issue: 05.09.2019 Revision date: 01.08.2024 Version/Replaced version: 6.0/5.0

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

1.1. Product identifier

Product form : Mixture

Product name : DIRKO™ HT Black

Product code : 458.422 (20 ml), 006.553 (70 ml)

UFI : HA00-C0F3-200X-Q5G5

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

1.2.1. Relevant identified uses

Intended for general public

Use of the substance/mixture : Sealants

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer
ElringKlinger AG
Max-Eyth-Straße 2
72581 Dettingen/Erms - Germany
T +49 (0)7123 724 799
det.iam.sdb@elringklinger.com

Supplier

Safety Data Sheet: DLAC Dienstleistungsagentur Chemie GmbH, E-mail: sds@dlac-gmbh.de

1.4. Emergency telephone number

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum (GIZ-Nord) Universitätsmedizin Göttingen - Georg-August-Universität	Robert-Koch Straße 40 37075 Göttingen	+49 551 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Specific target organ toxicity - Repeated exposure, Category 1 H372

Full text of H-phrases: see section 16

Adverse physicochemical, human health and environmental effects

Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use.

2.2. Label elements

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

Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use. Although the product is classified according to CLP criteria, no labelling is required according to Article 23 in conjunction with Annex I (Section 1.3.4.1) of Regulation (EC) No 1272/2008 [CLP].

EUH phrases : EUH208 - Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

2.3. Other hazards

Contains PBT/vPvB substances assessed in accordance with REACH Annex XIII: Octamethylcyclotetrasiloxane (556-67-2).

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.

Substances formed under the conditions of use:

Name	Product identifier	%	Classification according to Regulation (EC) No 1272/2008 [CLP]
2-Pentanone, oxime	(CAS No) 623-40-5 (EC No) 484-470-6	≤ 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412
Ethanol, ethyl alcohol	(CAS No) 64-17-5 (EC No) 200-578-6 (Index No) 603-002-00-5	≤ 1	Flam. Liq. 2, H225 Eye Irrit. 2, H319

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]
Quartz	(CAS No) 14808-60-7 (EC No) 238-878-4	20 - < 50	STOT RE 1, H372
Silica	(CAS No) 112945-52-5 (EC No) 601-216-3	5 - < 10	Not classified
2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime	(CAS No) 58190-62-8 (EC No) 700-810-0 (REACH No) 01-2120006148-66-XXXX	1 - < 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
2-Pentanone, O,O',O''-(methylsilylidyne)trioxime	(CAS No) 37859-55-5 (EC No) 484-460-1 (REACH No) 01-2120004323-76-XXXX	1 - < 5	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
3-aminopropyltriethoxysilane	(CAS No) 919-30-2 (EC No) 213-048-4 (Index No) 612-108-00-0 (REACH No) 01-2119480479-24-XXXX	0.1 - < 1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317
Octamethylcyclotetrasiloxane *(substance listed as REACH Candidate)*	(CAS No) 556-67-2 (EC No) 209-136-7 (Index No) 014-018-00-1	0.01 - < 0.079	Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10)

Full text of H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.

First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Drink water as a precaution. Do NOT induce vomiting.

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

Symptoms/injuries after skin contact : The product is not considered irritating to the skin. May produce an allergic reaction.

Symptoms/injuries : Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use.

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 agents that suit the environment. Carbon dioxide. Extinguishing powder. Water spray. For a significant fire: Alcohol resistant foam.

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

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide. Toxic gases and vapours. Silicon oxides.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from entering environment.

Protection during firefighting : Use a self-contained breathing apparatus and also a protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Provide adequate ventilation. Do not breathe vapours.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. In case of inadequate ventilation wear respiratory protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (for example cloth). Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Keep in suitable, closed containers for disposal. Dispose of in accordance with relevant local regulations.

6.4. Reference to other sections

Exposure controls and personal protection, 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 breathing vapours, spray. Avoid contact with skin and eyes. Wear personal protective equipment.

Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Protect from heat and direct sunlight.

Prohibitions on mixed storage : Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Sealants.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Quartz (14808-60-7)		
EU	Local name	Respirable crystalline silica dust
EU	IOELV TWA (mg/m³)	0.1 mg/m³
Ireland	Local name	Silica, crystalline (Cristobalite, Quartz, Tridymite, Tripoli)
Ireland	OEL (8 hours ref) (mg/m³)	0.1 mg/m³ (respirable dust)
Ireland	Notes	Carc-see Schedule 4, BOELV
United Kingdom	Local name	Silica, respirable crystalline (Quartz)
United Kingdom	WEL TWA (mg/m³)	0.1 mg/m³ (respirable dust)
United Kingdom	Notes	Carc (where generated as a result of a work process)

Ethanol, ethyl alcohol (64-17-5)		
Ireland	Local name	Ethanol
Ireland	OEL (15 min ref) (ppm)	1000 ppm
United Kingdom	Local name	Ethanol
United Kingdom	WEL TWA (mg/m³)	1920 mg/m³
United Kingdom	WEL TWA (ppm)	1000 ppm

Silicon dioxide (112945-52-5)		
Ireland	Local name	Silica, amorphous
Ireland	OEL (8 hours ref) (mg/m³)	6 mg/m³ (total inhalable dust) 2.4 mg/m³ (respirable dust)
United Kingdom	Local name	Silica, amorphous
United Kingdom	WEL TWA (mg/m³)	6 mg/m³ (inhalable dust) 2.4 mg/m³ (respirable dust)

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.065 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.229 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	0.033 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.057 mg/m³

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
Long-term - systemic effects, oral	0.033 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.103 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.586 mg/kg dwt
PNEC sediment (marine water)	0.059 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.046 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2.22 mg/l

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	0.065 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.229 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	0.033 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	0.057 mg/m³
Long-term - systemic effects, oral	0.033 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.1 mg/l
PNEC aqua (marine water)	0.01 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	0.569 mg/kg dwt
PNEC sediment (marine water)	0.057 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.044 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	2.15 mg/l

3-aminopropyltriethoxysilane (919-30-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	2 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	14 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, dermal	1 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	3.5 mg/m³
Long-term - systemic effects, oral	1 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.5 mg/l
PNEC aqua (marine water)	0.05 mg/l
PNEC aqua (intermittent, freshwater)	2.05 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	1.8 mg/kg dwt
PNEC sediment (marine water)	0.18 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.069 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	0.81 mg/l

Octamethylcyclotetrasiloxane (556-67-2)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, inhalation	73 mg/m³
Long-term - local effects, inhalation	73 mg/m³
DNEL/DMEL (General population)	
Long-term - systemic effects, oral	3.7 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	13 mg/m³
Long-term - local effects, inhalation	13 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	0.0015 mg/l

Octamethylcyclotetrasiloxane (556-67-2)	
PNEC aqua (marine water)	0.00015 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	3 mg/kg dwt
PNEC sediment (marine water)	0.3 mg/kg dwt
PNEC (Soil)	
PNEC soil	0.84 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	41 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l

8.2. Exposure controls

Appropriate engineering controls : Provide local exhaust or general room ventilation to minimize vapour concentrations.

Hand protection : Wear suitable gloves (EN 374 or equivalent). Short-term contact: nitrile/neoprene, ≥ 0.2 mm. Prolonged or repeated contact: nitrile, ≥ 1.25 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection : Chemical goggles or safety glasses (EN 166).

Skin and body protection : Wear suitable protective clothing (EN 14605, EN 13982).

Respiratory protection : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Respiratory protection with filter type ABEK (EN 14387).

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. Paste.

Colour : Black

Odour : No data available

Melting point/freezing point : No data available

Boiling point or initial boiling point and boiling range : No data available

Flammability : No data available

Lower and upper explosion limit : Not applicable

Flash point : Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No data available

pH : Not applicable

Kinematic viscosity : Not applicable

Solubility : Water: practically insoluble
Acetone, Alcohol: slightly soluble
Aliphatic/aromatic hydrocarbons: dispersible
Chlorinated solvents: dispersible

Partition coefficient n-octanol/water (log value) : Not applicable

Vapour pressure : No data available

Density and/or relative density : ~ 1.19 kg/dm³ (20 °C)

Relative vapour density : Not applicable

Particle characteristics : No data available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosive properties : None

Oxidising properties : None

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vulcanizes at room temperature and on contact with humidity.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

High temperature.

10.5. Incompatible materials

Oxidizing agents. Water.

10.6. Hazardous decomposition products

In case of fire: Carbon dioxide. Carbon monoxide. Toxic gases and vapours. Silicon oxides.

SECTION 11: Toxicological information

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

Acute toxicity : Not classified

Based on available data, the classification criteria are not met

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
LD50 oral rat	1000 - 2000 mg/kg
LD50 dermal rat	> 2000 mg/kg

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
LD50 oral rat	1234 mg/kg
LD50 dermal rat	> 2000 mg/kg

3-aminopropyltriethoxysilane (919-30-2)	
LD50 oral rat	1490 mg/kg
LD50 dermal rabbit	4076 mg/kg
LC50 inhalation rat (Vapours)	> 145 mg/m³/6 h

Octamethylcyclotetrasiloxane (556-67-2)	
LD50 oral rat	> 4800 mg/kg
LD50 dermal rat	> 2375 mg/kg
LC50 inhalation rat (Dust/Mist)	36 mg/l/4 h

Skin corrosion/irritation : Not classified

Based on available data, the classification criteria are not met

Serious eye damage/irritation : Not classified

Based on available data, the classification criteria are not met

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

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (single exposure) : Not classified

Based on available data, the classification criteria are not met

Specific target organ toxicity (repeated exposure) : Quartz: Fibres enclosed in polymer are not expected to present a health hazard as long as they are processed under normal conditions of use.

Aspiration hazard : Not classified

Based on available data, the classification criteria are not met

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disruption for human health : The mixture has no endocrine disrupting properties.

11.2.2. Other information

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Not classified

The maximum concentration of octamethylcyclotetrasiloxane (556-67-2) that can leach from the product is below the established safety level (< 0.0079 mg/l) for aquatic organisms.

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
LC50 fish	> 100 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	> 100 mg/l 48 h, Daphnia magna
ErC50 algae	88 mg/l 72 h, Raphidocelis subcapitata
NOEC algae	32 mg/l 72 h, Raphidocelis subcapitata

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
LC50 fish	> 100 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	> 100 mg/l 48 h, Daphnia magna
ErC50 algae	88 mg/l 72 h, Raphidocelis subcapitata
NOEC algae	32 mg/l 72 h, Raphidocelis subcapitata

3-aminopropyltriethoxysilane (919-30-2)	
LC50 fish	> 934 mg/l 96 h, Danio rerio
EC50 daphnia	331 mg/l 48 h, Daphnia magna
EC50 algae	> 1000 mg/l 72 h, Desmodesmus subspicatus
NOEC daphnia	≥ 1 mg/l 21 d, Daphnia magna
NOEC algae	1.3 mg/l 72 h, Desmodesmus subspicatus

Octamethylcyclotetrasiloxane (556-67-2)	
LC50 fish	> 0.022 mg/l 96 h, Oncorhynchus mykiss
EC50 daphnia	> 0.015 mg/l 48 h, Daphnia magna
EC50 algae	> 0.022 mg/l 96 h, Raphidocelis subcapitata
NOEC fish	≥ 0.0044 mg/l 93 d, Oncorhynchus mykiss
NOEC daphnia	≥ 0.015 mg/l 21 d, Daphnia magna
NOEC algae	< 0.022 mg/l 96 h, Raphidocelis subcapitata

12.2. Persistence and degradability

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 %, 28 d (OECD 301 B)

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	1 %, 28 d (OECD 301 B)

3-aminopropyltriethoxysilane (919-30-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	67 %, 28 d (OECD 301 A)

Octamethylcyclotetrasiloxane (556-67-2)	
Persistence and degradability	Not readily biodegradable.
Biodegradation	3.7 %, 29 d (OECD 310)

12.3. Bioaccumulative potential

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime (58190-62-8)	
Bioconcentration factor (BCF REACH)	69.21 l/kg

2-Pentanone, O,O',O''-(methylsilylidyne)trioxime (37859-55-5)	
Bioconcentration factor (BCF REACH)	103.3 l/kg

3-aminopropyltriethoxysilane (919-30-2)	
Bioconcentration factor (BCF REACH)	3.4 (OECD 305 C)

Octamethylcyclotetrasiloxane (556-67-2)	
Bioconcentration factor (BCF REACH)	12400 l/kg (EPA OTS 797.1520)
Partition coefficient n-octanol/water (Log Pow)	6.98 (21.7 °C)

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Contains PBT/vPvB substances assessed in accordance with REACH Annex XIII: Octamethylcyclotetrasiloxane (556-67-2).

12.6. Endocrine disrupting properties

Endocrine disruption for the environment : The 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 legislation (waste)	:	Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	:	Dispose of this material and its container at hazardous or special waste collection point. Do not empty into drains.
Waste disposal recommendations	:	Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.
Waste code	:	The valid EWC waste code numbers are source related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA

14.1. UN number or ID number

UN-No. (ADR)	:	Not applicable
UN-No. (IMDG)	:	Not applicable
UN-No. (IATA)	:	Not applicable

14.2. UN proper shipping name

Proper Shipping Name (ADR)	:	Not applicable
Proper Shipping Name (IMDG)	:	Not applicable
Proper Shipping Name (IATA)	:	Not applicable

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	:	Not applicable

IMDG

Transport hazard class(es) (IMDG)	:	Not applicable

IATA

Transport hazard class(es) (IATA)	:	Not applicable

14.4. Packing group

Packing group (ADR)	:	Not applicable
Packing group (IMDG)	:	Not applicable
Packing group (IATA)	:	Not applicable

14.5. Environmental hazards

Dangerous for the environment	:	No
Marine pollutant	:	No
Other information	:	No supplementary information available.

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air 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 XIV (Authorisation List)

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

REACH Candidate List (SVHC)

Contains substance(s) listed on the REACH Candidate List: Octamethylcyclotetrasiloxane (556-67-2).

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).

Explosives Precursors Regulation (2019/1148)

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

Drug Precursors Regulation (273/2004)

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

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Data sources : 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Changes compared to the previous version : Section 15.1.1

Abbreviations and acronyms:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EC50	The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
IATA	International Air Transport Association
IMDG	“International Maritime Dangerous Goods Code” for the transport of dangerous goods by sea
LC50	Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)
NOEC/L	No Observed Effect Concentration/Level
OECD	Organisation for Economic Cooperation and Development
PBT	Persistent, Bioaccumulative and Toxic substance
PNEC	Predicted No-Effect Concentration
REACH	Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
SDS	Safety Data Sheet
STP	Sewage Treatment Plant
UFI	Unique Formula Identifier
vPvB	Very Persistent and Very Bioaccumulative

Full text of H- and EUH-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2

Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Sens. 1	Skin sensitisation, Category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

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.