

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 8/9/2023 Revision date: 8/9/2023 Supersedes version of: 12/5/2022 Version: 6.00

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

#### 1.1. Product identifier

- Product form Trade name Chemical name EC-No. CAS-No. REACH registration No.
- Substance (UVCB)
  Total Resin Extract / Ethanol Extract
  Hop, Humulus lupulus, ext.
  232-504-3
  8060-28-4
- : 01-2120766018-52-xxxx

#### **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

: Manufacturing of food

#### 1.2.2. Uses advised against

No additional information available

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

#### Manufacturer/Supplier

Simon H. Steiner, Hopfen, GmbH Auhofstr. 18 84048 Mainburg Germany T +49 8751 8605 0 - F +49 8751 8605 80

#### Supplier/Importer

Steiner Hops Ltd. 15A Henley Business park Pirbright Road GU3 2DX Normandy Guildford, Surrey United Kingdom T +44 1992 572 331 Email competent person

sds@kft.de

#### 1.4. Emergency telephone number

Emergency number

#### Manufacturer/Supplier

Hallertauer Hopfenveredelungsges. mbH Auhofstr. 18 84048 Mainburg Germany T +49 8751 8605 500

#### Supplier/Importer

S. S. Steiner, Inc. 1 West Washington Avenue WA 98903 Yakima USA T +1 509 453 4731

: Simon H. Steiner, Hopfen, GmbH Tel.: +49 8751 8605 0 (Montag – Freitag 08:00 – 17:00, Central European Time)

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#### Steiner Hops Ltd. Phone: +44 1992 572 331 (Monday to Friday 8.00-17.00, Greenwich Mean Time)

S. S. Steiner, Inc. Phone: +1 509 453 4731 (Monday to Friday 8.00-17.00, Pacific Time Zone)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Skin sensitisation, Category 1	H317
Full text of H- and EUH-statements: see section 16	

#### Safety Data Sheet

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

#### Adverse physicochemical, human health and environmental effects

May cause an allergic skin reaction. Causes skin irritation. Causes serious eye irritation.

#### 2.2. Label elements

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

	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H315 - Causes skin irritation.
	H317 - May cause an allergic skin reaction.
	H319 - Causes serious eye irritation.
Precautionary statements (CLP)	: P261 - Avoid breathing mist, vapours, spray.
	P264 - Wash hands, forearms and face thoroughly after handling.
	P280 - Wear protective clothing, protective gloves, eye protection.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
	P362+P364 - Take off contaminated clothing and wash it before reuse.

#### 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 Contains no PBT/vPvB substances  $\geq$  0.1% assessed in accordance with REACH Annex XIII

Component	
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3- methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28- 0)	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
hop oil (8007-04-3)	PBT: not relevant – no registration required vPvB: not relevant – no registration required
Ethanol (64-17-5)	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

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Substance type: UVCEChemical name: Hop, I	, Humulus lupulus, ext.
CAS-No. : 8060- EC-No. : 232-5	-

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3- methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (Natural component)	CAS-No.: 468-28-0 EC-No.: 207-405-3 REACH-no: 01-2120766877- 32-0001	15 – 30	Acute Tox. 4 (Oral), H302 (ATE=700 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317

### Safety Data Sheet

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

hop oil (Natural component)	CAS-No.: 8007-04-3 EC-No.: 640-023-9	3 – 12	Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
Ethanol (substance with national workplace exposure limit(s))	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	≤ 0.3	Flam. Liq. 2, H225 Eye Irrit. 2, H319

Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Ethanol (substance with national workplace exposure limit(s))	CAS-No.: 64-17-5 EC-No.: 200-578-6 EC Index-No.: 603-002-00-5	( 50 ≤C < 100) Eye Irrit. 2, H319

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

#### 3.2. Mixtures

Not applicable

SECTION 4: First aid measures	
4.1. Description of first aid measures	

First-aid measures general	: In all cases of doubt, or when symptoms persist, seek medical attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
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. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effects	s, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction. Irritation.
Symptoms/effects after eye contact	: Eye 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	: Use extinguishing media appropriate for surrounding fire. Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Strong water jet.
5.2. Special hazards arising from the subs	tance or mixture
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon monoxide. Carbon dioxide.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
Other information	: Do not allow run-off from fire fighting to enter drains or water courses. Disposal must be done according to official regulations.

#### Safety Data Sheet

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

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing mist, vapours, spray.	
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".	
6.2. Environmental precautions		
Avoid sub-soil penetration. Prevent ent	rry to sewers and public waters.	
6.3. Methods and material for co	ontainment and cleaning up	

Methods for cleaning up	Take up liquid spill into absorbent material. Take up mechanically (sweeping, shovelling)
	and collect in suitable container for disposal.
Other information :	Disposal must be done according to official regulations.

#### 6.4. Reference to other sections

Information for safe handling. See section 7. Concerning personal protective equipment to use, see section 8. For further information refer to section 13.

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin and eves. Avoid breathing mist, vapours, spray.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the

## product. 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	: Keep container tightly closed. Store in a well-ventilated place. Keep cool.
Storage temperature	: <10 °C
Information about storage in one common storage	: Keep away from food, drink and animal feeding stuffs.
facility	

#### 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

Ethanol (64-17-5)	
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Ethanol
AGW (OEL TWA) [1]	380 mg/m <sup>3</sup>
AGW (OEL TWA) [2]	200 ppm
Peak exposure limitation factor	4(II)

#### Safety Data Sheet

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

Remark	DFG - Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe der DFG (MAK-Kommission); Y - Ein Risiko der Fruchtschädigung braucht bei Einhaltung des Arbeitsplatzgrenzwertes und des biologischen Grenzwertes (BGW) nicht befürchtet zu werden
Regulatory reference	TRGS900
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	
Hop, Humulus lupulus, ext. (8060-28-4)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	10 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	0.058 mg/l
PNEC aqua (marine water)	0.0058 mg/l
PNEC aqua (intermittent, freshwater)	0.058 mg/l
PNEC aqua (intermittent, marine water)	0.0058 mg/l
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4	-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	6 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	21 mg/m <sup>3</sup>
DNEL/DMEL (General population)	
Long-term - systemic effects, inhalation	10 mg/m <sup>3</sup>
Long-term - systemic effects, dermal	3 mg/kg bodyweight/day
PNEC (Water)	
PNEC aqua (freshwater)	1.87 µg/L
PNEC aqua (marine water)	0.187 µg/L
PNEC aqua (intermittent, freshwater)	1.87 µg/L
PNEC aqua (intermittent, marine water)	0.187 µg/L
PNEC (STP)	
PNEC sewage treatment plant	10 mg/l
Ethanol (64-17-5)	
DNEL/DMEL (Workers)	
Long-term - systemic effects, dermal	8238 mg/kg bodyweight/day

#### Safety Data Sheet

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

Long-term - systemic effects, inhalation	380 mg/m <sup>3</sup>	
DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	114 mg/m <sup>3</sup>	
PNEC (Water)		
PNEC aqua (freshwater)	0.96 mg/l	
PNEC aqua (marine water)	0.79 mg/l	
PNEC aqua (intermittent, freshwater)	2.75 mg/l	
PNEC (Sediment)		
PNEC sediment (freshwater)	3.6 mg/kg dwt	
PNEC sediment (marine water)	2.9 mg/kg dwt	
PNEC (Soil)		
PNEC soil	0.63 mg/kg dwt	
PNEC (Oral)		
PNEC oral (secondary poisoning)	0.38 kg/kg food	
PNEC (STP)		
PNEC sewage treatment plant	580 mg/l	

#### 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:

Wear closed safety glasses. ISO 16321-1

#### 8.2.2.2. Skin protection

#### Skin and body protection: Wear suitable protective clothing. EN ISO 13688. EN 13034

#### Hand protection:

In case of repeated or prolonged contact wear gloves. Chemically resistant protective gloves. Nitrile rubber. ISO 374-1. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer. Gloves must be replaced after each use and whenever signs of wear or perforation appear

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment. Breathing apparatus with filter. Filter A (colour code: brown). EN 143. . Breathing equipment is only to be used in order to handle the residual risk of short term jobs if all other risk minimizing measures have been carried out e.g. retention and/or local exhaust

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Safety Data Sheet

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

#### Other information:

Do not eat, drink or smoke when using this product. Avoid contact with skin and eyes. Always wash hands after handling the product.

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

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: dark green.
Appearance	: Viscous.
Odour	: Not available
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 100 °C (DIN EN ISO 3679)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
рН	: 6.2
Viscosity, kinematic	: Not available
Viscosity, dynamic	: 400 – 1000 mPa⋅s (45 °C)
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1 g/cm <sup>3</sup> (20 °C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

#### 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

No additional information available

#### Safety Data Sheet

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

#### 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 (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 (dermai) : Not classified (Based on available data, the classification criteria are not met)	
A suite (as well be a standard of the standard	
Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)	

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3.5-dihvdroxy-2.6.6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2.4-dien-1-one (468-28-0)

LD50 oral rat	700 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation. pH: 6.2
Serious eye damage/irritation	: Causes serious eye irritation. pH: 6.2
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
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)
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)

#### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information 12.1. Toxicity Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met)

(acute) Hazardous to the aquatic environment, long-term : (chronic)	Not classified. (Based on available data, the classification criteria are not met)
Hop, Humulus lupulus, ext. (8060-28-4)	
EC50 - Crustacea [1]	> 5.8 mg/l (48 h; Daphnia magna; (OECD 202 method))
ErC50 algae	52.5 mg/l (72 h; Pseudokirchneriella subcapitata; (OECD 201 method))
Ethanol	
NOEC chronic algae	11.5 mg/l (72 h, Chlorella vulgaris, (OECD 201 method))

#### 12.2. Persistence and degradability

Hop, Humulus lupulus, ext. (8060-28-4)	
Persistence and degradability	Readily biodegradable, failing 10-d window.
Biodegradation	26 % (28 d; (OECD 301D method))

#### Safety Data Sheet

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

3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)		
Persistence and degradability         Readily biodegradable, failing 10-d window.		
Biodegradation	26 % (28 d; (OECD 301D method))	
Ethanol (64-17-5)		
Persistence and degradability	Readily biodegradable.	
Biodegradation	84 % (20 d)	

#### 12.3. Bioaccumulative potential

3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)		
Partition coefficient n-octanol/water (Log Pow)	4 – 5.5 (40 °C; pH 7; (OECD 117 method))	
Ethanol (64-17-5)		
Partition coefficient n-octanol/water (Log Kow)	-0.35 (20 °C)	
Bioaccumulative potential	Bioaccumulation unlikely.	

#### 12.4. Mobility in soil

3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28-0)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.7 – 2.9 (Quantitative structure-activity relationship (QSAR))
Ethanol (64-17-5)	
Surface tension	22.31 mN/m (20 °C)

#### 12.5. Results of PBT and vPvB assessment

Hop, Humulus lupulus, ext. (8060-28-4)		
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		
Component		
3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3- methyl-1-oxobutyl)cyclohexa-2,4-dien-1-one (468-28- 0)	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	
hop oil (8007-04-3)	PBT: not relevant – no registration required vPvB: not relevant – no registration required	
Ethanol (64-17-5)	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

No additional information available

#### 12.7. Other adverse effects

Other adverse effects

: No additional information available.

SECTION 13: Disposal	considerations
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#### 13.1. Waste treatment methods

Waste treatment methods

: Disposal must be done according to official regulations. European waste catalogue. Do not discharge into drains or the environment. Do not dispose of with domestic waste.

#### Safety Data Sheet

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

Product/Packaging disposal recommendations	: Recycle or dispose of in compliance with current legislation.
HP Code	: HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin
	irritation or damage to the eye.
	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 IMDG ΙΑΤΑ ADN ADR RID 14.1. UN number or ID number Not regulated Not regulated Not regulated Not regulated Not regulated 14.2. UN proper shipping name Not regulated Not regulated Not regulated Not regulated Not regulated 14.3. Transport hazard class(es) Not regulated Not regulated Not regulated Not regulated Not regulated 14.4. Packing group Not regulated Not regulated Not regulated Not regulated Not regulated 14.5. Environmental hazards Not regulated Not regulated Not regulated Not regulated Not regulated No supplementary information available

#### 14.6. Special precautions for user

#### **Overland transport**

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport Not regulated

Rail transport Not regulated

#### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Other information, restriction and prohibition	:	Take note of Directive 94/33/EC on the protection of young people at work.
regulations		

#### Safety Data Sheet

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

#### **REACH Annex XVII (Restriction List)**

EU restriction list (REACH Annex XVII)		
Reference code Applicable on		
3(a)	hop oil ; Ethanol	
3(b)	Hop, Humulus lupulus, ext. ; 3,5-dihydroxy-2,6,6-tris(3-methylbuten-2-yl)-4-(3-methyl-1-oxobutyl)cyclohexa-2,4-dien-1- one ; hop oil ; Ethanol	
3(c)	hop oil	
40.	hop oil ; Ethanol	

#### **REACH Annex XIV (Authorisation List)**

Not listed on REACH Annex XIV (Authorisation List)

#### **REACH Candidate List (SVHC)**

Not listed on the REACH Candidate List

#### **PIC Regulation (Prior Informed Consent)**

Not listed on the PIC list (Regulation EU 649/2012)

#### POP Regulation (Persistent Organic Pollutants)

Not listed on the POP list (Regulation EU 2019/1021)

#### Ozone Regulation (1005/2009)

Not listed on the Ozone Depletion list (Regulation EU 1005/2009)

#### **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

#### Germany

Employment restrictions	: Employment prohibitions or restrictions on the protection of young people at work according
	to § 22 JArbSchG in the case of formation of hazardous substances have to be observed.
National Rules and Recommendations	: TRGS 400: Risk Assessment for Activities involving Hazardous Substances.
	TRGS 401: Risks resulting from skin contact - identification, assessment, measures.
	TRGS 510: Storage of hazardous substances in non-stationary containers.
	TRGS 520: Construction and operation of collection points and temporary storage for small
	amounts of hazardous waste.
	TRGS 900: Occupational Exposure Limits.
Water hazard class (WGK)	: WGK 1, Slightly hazardous to water (Classification according to AwSV; ID No. 6390).
Storage class (LGK, TRGS 510)	: LGK 10 - Combustible liquids.
Hazardous Incident Ordinance (12. BImSchV)	: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

#### **SECTION 16: Other information**

# Indication of changes Section Changed item Change Comments General revision General revision Image: Comments Image: Comments 1.1 REACH registration No. Added Image: Comments Image: Comments 2.2 Precautionary statements (CLP) Modified Image: Comments Image: Comments

#### Safety Data Sheet

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

8.1	DNEL and PNEC	Added	
8.1	PNEC	Modified	
9.1	Flash point	Modified	
12.2	Persistence and degradability	Added	

Abbreviations and acronyms:		
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road	
ATE	Acute Toxicity Estimate	
BCF	Bioconcentration factor	
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008	
DMEL	Derived Minimal Effect level	
DNEL	Derived-No Effect Level	
EC50	Median effective concentration	
IARC	International Agency for Research on Cancer	
ΙΑΤΑ	International Air Transport Association	
IMDG	International Maritime Dangerous Goods	
LC50	Median lethal concentration	
LD50	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	Organisation for Economic Co-operation and Development	
РВТ	Persistent Bioaccumulative Toxic	
PNEC	Predicted No-Effect Concentration	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006	
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS	Safety Data Sheet	
STP	Sewage treatment plant	
TLM	Median Tolerance Limit	
vPvB	Very Persistent and Very Bioaccumulative	
CAS-No.	Chemical Abstract Service number	

Data sources	: Information provided by the manufacturer. European Chemicals Agency, http://echa.europa.eu/.
Department issuing data specification sheet:	: KFT Chemieservice GmbH Im Leuschnerpark 3 D-64347 Griesheim
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#### Safety Data Sheet

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

Other information

: This safety data sheet is for informational purposes only and does not fully comply with national legal requirements. The national distributor is responsible for a legally compliant safety data sheet. Version/s 1.00-4.00 is/are not available in this language. A safety data sheet is not required for this product. This Product Safety Information Sheet has been created on a voluntary basis.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, 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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

#### KFT SDS EU 00

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.