

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

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

• **1.1 Product identifier**

• **Trade name:**

Citronella candle

• **Registration number:**

No available data.

• **UFI number:**

No available data.

• **Other means of identification:**

No available data.

• **1.2 Relevant identified uses of the substance or mixture and uses advised against on**

• **Application of the substance/ mixture:**

Consumer uses, decorative lighting.

• **Uses advised against:**

No available data.

• **Reason why uses advised against:**

No available data.

• **1.3 Details of the supplier of the safety data sheet**

• **Manufacturer/Supplier:**

Qingdao Hailide Arts & Crafts Co., Ltd.

1609,16/F, Building 1, The Hub, No. 6 Xiao gang Road, Shi bei District, Qingdao City, 266005, China

Post code: 266005

Tel: 86-0532-82833286

Fax: 86-0532-82817768

Email: cathy@candles-holder.com

National contact: Cathy

• **Only Representative/other EU contact point:**

No information available.

• **Further information obtainable from:**

Qingdao Hailide Arts & Crafts Co., Ltd.

• **1.4 Emergency telephone number**

Tel: 86-0532-82833286 (24 hours available)

SECTION 2: Hazards identification

• **2.1 Classification of the substance or mixture**

• **2.1.1 Classification according to regulation (EC) 1272/2008:**

Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Aquatic Chronic 3, H412	Calculation method

• **2.1.2 Additional information:**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

• **2.2 Label elements**

• **Labeling according to Regulation (EC) No 1272/2008:**



Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2022-10-17

EFSH22100222-CG-01

The product is labelled according to Regulation (EC) No 1272/2008.

• **Hazard pictograms:**

No pictogram is used

• **Signal word:**

No signal word is used

• **Hazard-determining components of labelling:**

Not applicable

• **Hazard statements:**

H412 Harmful to aquatic life with long lasting effects

• **Precautionary statement:**

P273 Avoid release to the environment.

P501 Dispose of contents/container in accordance with local/regional/national/international regulation.

• **Supplemental label elements:**

EUH208: Contains Citronellal. May produce an allergic reaction.

• **2.3 Other hazards**

None of the ingredients ($\geq 0.1\%$) meets the criteria for PBT/vPvB in accordance with Annex XIII.

None of the ingredients ($\geq 0.1\%$) is identified as having endocrine disrupting properties according to Regulation (EU) 2017/2100.

SECTION 3: Composition/information on ingredients

• **3.1 Substance**

Not applicable

• **3.2 Mixtures**

• **Description of the mixture:**

Citronella candle.

Ingredients:

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/AT E
Paraffin wax	8002-74-2	-	232-315-6	96.93	None	-
Benzyl benzoate	120-51-4	607-085-00 -9	204-402-9	2.46	Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 2, H411	ATE (oral)=1900 mg/kg M=1
Citronellal	106-23-0	-	203-376-6	0.13905	Skin Irrit.2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-
Vanillin	121-33-5	-	204-465-2	0.135	Eye Irrit.2, H319	-
Solvent yellow 33	8003-22-3	-	232-318-2	0.07	Skin Irrit.2, H315 Eye Irrit.2, H319 STOT SE 3, H335	-
A-terpineol	10482-56- 1	-	233-986-8	0.045	Skin Irrit.2, H315 Eye Dam. 1, H318	-

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

Geranyl acetate	105-87-3	-	203-341-5	0.045	Skin Irrit.2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	-
Benzyl acetate	140-11-4	-	205-399-7	0.045	Aquatic Chronic 3, H412	-
4-hydroxy-3-methoxybenzyl alcohol	498-00-0	-	207-852-4	0.045	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-
2-ethyl-3-hydroxy-4-pyrone	4940-11-8	-	225-582-5	0.045	Acute Tox. 4, H302	ATE (oral)=1150 mg/kg
Eugenol	97-53-0	-	202-589-1	0.009	Skin Sens. 1B, H317 Eye Irrit.2, H319	-
musk xylene 5-tert-butyl-2,4,6-tri nitro-m-xylene	81-15-2	609-068-00 -1	201-329-4	0.009	Expl.1.1 H201 Carc. 2 H351 Aquatic Acute 1 H400 Aquatic Chronic 1 H410	-
Nerol	106-25-2	-	203-378-7	0.009	Skin Irrit.2, H315 Skin Sens. 1B, H317 Eye Irrit.2, H319	-
Linalool	78-70-6	603-235-00 -2	201-134-4	0.0045	Skin Irrit.2, H315 Skin Sens. 1B, H317 Eye Irrit.2, H319	-
Triethyl citrate	77-93-0	-	201-070-7	0.0045	None	-
2-Ethoxynaphthalene	93-18-5	-	202-226-7	0.0045	Skin Irrit.2, H315 Eye Irrit.2, H319 Aquatic Chronic 2, H411	-
Decanal	112-31-2	-	203-957-4	0.00045	Eye Irrit.2, H319 Aquatic Chronic 3, H412	-

Additional information:

For full text of H-statements, see SECTION 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General advice:

Get medical attention if you feel unwell.

After inhalation:

Supply with fresh air.

Get medical attention if you feel unwell.

After skin contact:

No special measure required.

If there are signs of irritation or other symptoms, seek medical attention.

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

After eye contact:

Rinse cautiously with water for several minutes.
If eye irritation occurs: Get medical advice/attention.

After swallowing:

Rinse mouth.
Call a POISON CENTER/doctor if you feel unwell.

· 4.2 Most important symptoms and effects, both acute and delayed:

May produce an allergic reaction.

· 4.3 Indication of any immediate medical attention and special treatment needed:

Treat according to symptom, there is not known specific medicine.

SECTION 5: Fire-fighting measures

· 5.1 Extinguishing media

· Suitable extinguishing agents:

Use CO₂, chemical powder, water spray or alcohol resistant foam to extinguish.

· Unsuitable extinguishing media:

Water with full jet.

· 5.2 Special hazards arising from the substance or mixture:

May form allergic / irritant vapor/fume in air under fire.

· 5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus for firefighting.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

· 6.1.1 For non-emergency personnel

Protective equipment:

Respiration protection.

Emergency procedures:

Avoid contact with eyes.

· 6.1.2 For emergency responders

Personal protective equipment:

Protective gloves and respiration protection.

· 6.2 Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Prevent spillage from entering drains, sewer, basement or confined areas.

If the spillage contaminates rivers, lakes or drains inform respective authorities.

· 6.3 Methods and material for containment and cleaning up:

Sweep up and shovel into suitable containers for disposal.

Dispose contaminated material as waste according to section 13.

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2022-10-17

EFSH22100222-CG-01

· 6.4 Reference to other sections:

See section 7 for information on safe handling.
 See section 8 for information on personal protection equipment.
 See section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling:

No special precaution for safe handling.

· Information about fire and explosion protection:

Normal measures for preventive fire protection.

· 7.2 Conditions for safe storage, including any non-compatibility

· Requirements to be met by storerooms and receptacles:

Store in a cool and well-ventilated place.

· Information about storage in one common storage facility:

No further requirement.

· Further information about storage conditions:

No further requirement.

· Storage class:

11.

· 7.3 Specific end use(s):

See section 1.2.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

Country	Limit value - Eight hours	Limit value - Short term
8002-74-2 Paraffin wax		
Belgium	2mg/m ³	-
Denmark	2mg/m ³	4mg/m ³
Finland	1mg/m ³	-
France	2mg/m ³	-
Ireland	2mg/m ³	6mg/m ³ 15 minutes reference period
Poland	2mg/m ³	-
Spain	2mg/m ³	-
United Kingdom	2mg/m ³	6mg/m ³
140-11-4 Benzyl acetate		
Belgium	10ppm; 62mg/m ³	-
Denmark	10ppm; 61mg/m ³	20ppm; 122mg/m ³
Latvia	5mg/m ³	-
Romania	8ppm; 50mg/m ³	13ppm; 80mg/m ³ 15 minutes average value
Spain	10ppm; 62mg/m ³	-

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

• DNELs:

DNEL type		DNEL worker value	DNEL consumer value
140-11-4 Benzyl acetate			
Systemic effects	Long-term, inhalation exposure	9 mg/m ³	2.2 mg/m ³
	Long-term, dermal exposure	2.5 mg/kg bw/day	1.3 mg/kg bw/day
	Long-term, oral exposure	-	1.3 mg/kg bw/day

• PNECs:

PNEC type	Value
140-11-4 Benzyl acetate	
Freshwater	18.4 µg/L
Intermittent releases (freshwater)	40 µg/L
Marine water	1.84 µg/L
Sewage treatment plant (STP)	8.55 mg/L
Sediment (freshwater)	526 µg/kg sediment dw

• Additional information:

The lists valid during the marking were used as basis.

• 8.2 Exposure controls

• Based on the composition shown in section 3, the following measures are suggested for occupational safety measure.

• Appropriate engineering controls:

Handle in accordance with good industrial hygiene and safety practice.

Wash hands and face before breaks and at the end of work.

Take off contaminated clothing and wash it before reuse.

See section 7 for information about design of technical facilities.

• Personal protective equipment

• Eye and face protection:

No special eye and face protection required.

• Skin protection

• Hand protection:

No special protection of hands required.

• Other skin protection:

No special protection required.

• Respiration protection:

Dust mask is recommended.

• Thermal hazards:

No special requirement.

• Environmental exposure controls:

Control measures must be made in accordance with Community environmental protection legislation.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2022-10-17

EFSH22100222-CG-01

· Physical state	Solid
· Color	Yellow
· Odor & Odor threshold	Citronella
· Melting point/freezing point (or softening point/range)	43-95°C
· Boiling point or initial boiling point and boiling range	341°C (Paraffin wax)
· Flammability	Not flammable solid
· Lower and upper explosion limit	Not applicable
· Flash point	317°C (Paraffin wax)
· Auto-ignition temperature	Not determined
· Decomposition temperature	Not determined
· pH	Not determined, this product is insoluble in water.
· Kinematic viscosity (mm²/s)	Not applicable
· Solubility	Insoluble in water
· Partition coefficient n-octanol/water (log value)	Not determined
· Vapor pressure	Not determined
· Density and/or relative density	Not determined
· Relative vapor density	Not determined
· Particle characteristics	Not determined
· 9.2 Other information	
· 9.2.1 Information with regard to physical hazard classes:	
· Explosives	Not applicable
· Flammable gases	Not applicable
· Aerosols	Not applicable
· Oxidising gases	Not applicable
· Gases under pressure	Not applicable
· Flammable liquids	Not applicable
· Flammable solids	Not applicable
· Self-reactive substances and mixtures	Not applicable
· Pyrophoric liquids	Not applicable
· Pyrophoric solids	Not applicable
· Self-heating substances and mixtures	Not applicable
· Substances and mixtures, which emit flammable gases in contact with water	Not applicable
· Oxidizing liquids	Not applicable
· Oxidizing solids	Not applicable
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
· 9.2.2 Other safety characteristics	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

· Acid/alkaline reserve	Not applicable
· Evaporation rate	Not applicable
· Miscibility	Not applicable
· Conductivity	Not applicable
· Corrosiveness	Not applicable
· Gas group	Not applicable
· Redox potential	Not applicable
· Radical formation potential	Not applicable
· Photocatalytic properties	Not applicable
· Other physical and chemical parameters	Not determined

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:**

Under storage at normal ambient temperatures, the product is stable.

· **10.3 Possibility of hazardous reactions:**

No known hazardous reaction.

· **10.4 Conditions to avoid:**

High temperature.

· **10.5 Incompatible materials:**

Strong oxidizing agent and flammable substance.

· **10.6 Hazardous decomposition products:**

Does not decompose when used for intended uses.

SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**

· **Acute toxicity:**

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

LD50/LC50 values relevant for classification:

8002-74-2 Paraffin wax

Rat	LD50-oral	>5000mg/kg
	LD50-skin	>2000mfg/kg

120-51-4 Benzyl benzoate

Rat	LD50-oral	1900mg/kg
	LD50-skin	4mL/kg

Mouse	LD50-oral	1400uL/kg
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Rabbit	LD50-oral	1680mg/kg
	LD50-skin	4000mg/kg

Guinea	LD50-oral	1mL/kg
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Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

pig		
4940-11-8	2-ethyl-3-hydroxy-4-pyrone	
Rabbit	LD50-skin	>5000mg/kg
Rat	LD50-oral	1150mg/kg
Mouse	LD50-oral	780mg/kg
Remark: All the above data are from literature.		

• **Skin corrosion/irritation:**

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

• **Serious eyes damage/ irritation:**

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

• **Respiratory or skin sensitization:**

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

• **Germ cell mutagenicity:**

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

• **Carcinogenicity:**

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

• **Reproductive toxicity:**

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

• **STOT-single exposure:**

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

• **STOT-repeated exposure:**

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

• **Aspiration hazard:**

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

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties:

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to humans, as none of them meet the criteria set out in section A of Regulation (EU) No 2017/2100.

11.2.2 Other information:

No known other relevant information on adverse health effects.

SECTION 12: Ecological information

• **12.1 Toxicity:**

LC50/EC50/NOEC values relevant for classification:

120-51-4 Benzyl benzoate

Short-term toxicity to fish	LC50 (4 days) 2.32 mg/L
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Short-term toxicity to aquatic invertebrates	EC50 (48 h) 3.09 mg/L
	NOEC (48 h) 1.73 mg/L

Long-term toxicity to aquatic invertebrates	NOEC (21 days) 258 - 970 $\mu\text{g/L}$
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Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2022-10-17

EFSH22100222-CG-01

Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 475 µg/L NOEC (72 h) 247 µg/L
Toxicity to microorganisms	EC50 (3 h) 10 g/L
106-23-0 Citronellal	
Short-term toxicity to fish	LC50 (4 days) 22 mg/L NOEC (4 days) 10 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 8.7 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 6.74 - 13.33 mg/L
105-87-3 Geranyl acetate	
Short-term toxicity to fish	LC50 (4 days) 68.12 mg/L NOEC (4 days) 10 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 14.1 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 3.72 mg/L NOEC (72 h) 585 µg/L
140-11-4 Benzyl acetate	
Short-term toxicity to fish	LC50 (4 days) 4 mg/L
Long-term toxicity to fish	NOEC (28 days) 920 µg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 17 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 92 - 110 mg/L
Toxicity to microorganisms	EC50 (3 h) 855 mg/L
112-31-2 Decanal	
Short-term toxicity to fish	LC50 (4 days) 1.45 - 2.1 mg/L NOEC (4 days) 1.32 - 1.75 mg/L
Short-term toxicity to aquatic invertebrates	EC50 (48 h) 1.17 - 1.94 mg/L NOEC (48 h) 588 - 1 300 µg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 1.79 - 4.5 mg/L NOEC (72 h) 759 µg/L
Toxicity to microorganisms	EC50 (3 h) 70 mg/L NOEC (3 h) 31.6 mg/L

• 12.2 Persistence and degradability:

120-51-4	Benzyl benzoate	Readily biodegradable in water
106-23-0	Citronellal	Readily biodegradable in water
105-87-3	Geranyl acetate	Readily biodegradable in water
140-11-4	Benzyl acetate	Readily biodegradable in water
112-31-2	Decanal	Readily biodegradable in water

• 12.3 Bio-accumulative potential:

120-51-4	Benzyl benzoate	Log Pow = 3.97
106-23-0	Citronellal	Log Pow = 3.62
105-87-3	Geranyl acetate	Log Pow = 3.56 - 4.04
140-11-4	Benzyl acetate	Log Pow = 1.96
112-31-2	Decanal	Log Pow = 3.8

• 12.4 Mobility in soil:

120-51-4	Benzyl benzoate	Log Koc = 3.80
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Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008



Issue Date: 2022-10-17

EFSH22100222-CG-01

140-11-4	Benzyl acetate	Log Koc= 2.40
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• **12.5 Results of PBT and vPvB assessment:**

This mixture does not contain any substances ($\geq 0.1\%$) that are assessed to be a PBT or a vPvB.

• **12.6 Endocrine disrupting properties:**

None of the ingredients ($\geq 0.1\%$) is considered to have endocrine-disrupting properties with respect to non-target organisms, as none of them meet the criteria set out in section B of Regulation (EU) No 2017/2100.

• **12.7 Other adverse effects:**

No known other adverse effects.

• **12.8 Additional ecological information**

• **General notes:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

Do not allow large quantities of the product to reach ground water, water course or sewage system.

SECTION 13: Disposal consideration

• **13.1 Waste treatment methods**

• **Recommendation:**

Small quantities can be disposed together with household garbage.

Large quantities disposed must be in according to the local/regional/national/ international regulation.

• **13.2 Un-cleaned packaging**

• **Recommendation:**

Dispose of contents/container in according to the local/regional/national/ international regulation.

SECTION 14: Transport information

• **ADR/RID (2021 Edition)**

This product is not subject to ADR/RID.

• **IATA-DGR (63th)**

This product is not subject to IATA-DGR.

• **IMO/IMDG (40-20)**

This product is not subject to IMO/IMDG code.

SECTION 15: Regulatory information

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **MAK (German Maximum Workplace Concentration):**

None of the ingredients is listed.

• **Directive 2012/18/EU**

• **Named dangerous substances-ANNEX I:**

None of the ingredients is listed.

• **Seveso category:**

Not applicable

• **Qualifying quantity (tonnes) for the application of lower-tier requirements:**

Not applicable

• **Qualifying quantity (tonnes) for the application of upper-tier requirements:**

Not applicable

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

• **National regulations.**

• **Water hazard class:**

WGK1 (German Regulation) (self-assessment): Low hazard to waters.

• **Other regulations, limitations and prohibitive regulations**

• **SVHC Candidate list of REACH Regulation Annex XIV Authorization:**

None of the ingredients is listed.

• **REACH Regulation Annex XVII Restriction:**

None of the ingredients is listed.

• **REACH Regulation Annex XIV Authorization List:**

None of the ingredients is listed.

• **15.2 Chemical safety assessment:**

A Chemical Safe Assessment has not been carried out.

SECTION 16: Other information

• **16.1 Indication of changes:**

None.

16.2 Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

PBT: Persistent, Bio accumulative and Toxic

vPvB: very persistent and very bio accumulative

SVHC: Substance of Very High Concern

LD50: Lethal dose, 50 percent

LC50: Lethal concentration, 50 percent

EC50: Concentration of maximal effect, 50 percent

NOEC: No observed effect concentration

Expl. 1.1: Explosives, hazard category 1.1

Acute Tox. 4: Acute toxicity, hazard category 4

Skin Irrit.2: Skin corrosion/irritation, hazard category 2

Skin Sens. 1: Skin sensitization, hazard category 1

Skin Sens. 1B: Skin sensitization, hazard category 1B

Eye Dam. 1: Eye damage/irritation, hazard category 1

Eye Irrit. 2: Eye damage/irritation, hazard category 2

Carc. 2: Carcinogenicity, hazard category 2

Aquatic Acute 1: Short-term (acute) aquatic hazard, hazard category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, hazard category 1

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, hazard category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, hazard category 3

Safety Data Sheet
According to Regulation (EC) No 1907/2006, Annex II,
Amended by COMMISSION REGULATION (EU) 2020/878,
According to REGULATION (EC) No 1272/2008

Issue Date: 2022-10-17

EFSH22100222-CG-01

· **16.3 Key literature references and sources for data:**

<https://echa.europa.eu/>
<https://chem.nlm.nih.gov/>
<https://www.osha.gov/>
<http://www.unece.org/>
<http://www.imo.org/>
<https://www.dguv.de/>
<https://epa.govt.nz/>
<http://www.ilo.org/>
<https://www.phmsa.dot.gov/>

· **16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1207/2008 [CLP]:**

See section 2.1 (classification).

· **16.5 Relevant H- and EUH-phrases (number and full text):**

H201 Explosive; mass explosion hazard
H302 Harmful if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H318 Causes serious eye damage
H319 Causes serious eye irritation
H351 Suspected of causing cancer
H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects
H411 Toxic to aquatic life with long lasting effects
H412 Harmful to aquatic life with long lasting effects

· **16.6 Training advice:**

Workers must be trained in general and specific aspects of safe work procedures for this chemical. Workers need easy to understand guidelines and instructions for safe working with this chemical. Instructions, guidelines and legally required documents need to be available for workers in easy to understand language.

· **16.7 Further information:**

The contents and format of this SDS are in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878 and (EC) No 1272/2008.

DISCLAIMER OF LIABILITY:

The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

End of safety data sheet