

## SDS REPORT

<b>SDS Report No.</b>	:	FC202406190801
<b>Compilation Date</b>	:	July 11, 2024
<b>Trade Name</b>	:	Survival Match
<b>Composition/Ingredient of The Sample</b>	:	See Section 3 on the SDS
<b>Service Requested</b>	:	Safety Data Sheet (SDS) for the sample with submitted composition.
<b>Summary</b>	:	As per request, the contents and formats of the SDS are prepared in accordance with Regulation (EC) No 1907/2006, its amendment Regulation (EU) No 2020/878, (EC) No 1272/2008 and are provided per attached.

Signed for and on behalf of  
Technical Center:



Zhejiang J-testing Service Co.,Ltd.

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# Safety Data Sheet

## Regulation (EC) No. 1907/2006 and 1272/2008

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

• **1.1 Product identifier**

• **Trade name:**

Survival Match

• **Other means of identification:**

Registration number: No available data.

UFI code: 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, outdoor fire.

• **Uses advised against:**

No available data.

• **Reason why uses advised against:**

No available data.

[REDACTED]

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

No information available.

• **Further information obtainable from:**

[REDACTED]

• **1.4 Emergency telephone number**

Tel: +086-574-87411418 (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
Flam. Sol. 2, H228	Expert judgement
Ox. Sol. 1, H271	Expert judgement
Acute Tox. 4 (inhal.), H332	Additivity formula approach
Skin Sens. 1, H317	Cut-off values/concentration limits approach
Aquatic Chronic 2, H411	Summation method

• **2.1.2 Additional information:**

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

**2.2 Label elements**
**Labeling according to Regulation (EC) No 1272/2008:**

The product is labelled according to CLP Regulation.

**Hazard pictograms:**


GHS02    GHS03    GHS07    GHS09

**Signal word:**

Danger

**Hazard-determining components of labelling:**

Potassium chlorate

Rosin

**Hazard statements:**

H228	Flammable solid
H271	May cause fire or explosion; strong oxidizer
H332	Harmful if inhaled
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects

**Precautionary statement:**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P220	Keep/Store away from clothing/combustible materials.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P371+P380+P375	In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local/regional/national/international regulation.

**Supplemental label elements:**

Not applicable

**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

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**Trade Name:** Survival Match**3.2 Mixtures****Description of the mixture:**

Survival Match.

**Ingredients:**

Substance	CAS No.	Index No.	EC No.	w/w, %	CLP Classification	SCL/M-factor/ATE
Potassium chlorate	3811-04-9	017-004-00-3	223-289-7	50	Ox. Sol. 1, H271 Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Chronic 2, H411	ATE (oral)= 1870 mg/kg ATE (inhal.)=1.5 mg/l(dusts/mist)
Silicon dioxide	14808-60-7	-	238-878-4	20	None	-
Gelatins	9000-70-8	-	232-554-6	12	None	-
Zinc oxide	1314-13-2	030-013-00-7	215-222-5	5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M=1 M(Chronic)=1
Diatomaceous earth	61790-53-2	-	-	3	Eye Irrit. 2, H319 STOT SE 3, H335	-
Phosphorus, red	7723-14-0	015-002-00-7	231-768-7	1-5	Flam. Sol. 2, H228 Aquatic Chronic 3, H412	-
Rosin	8050-09-7	650-015-00-7	232-475-7	2	Skin Sens. 1, H317	-
Starch	9005-25-8	-	232-679-6	2	None	-
Aluminum hydroxide	21645-51-2	-	244-492-7	1	None	-
Diantimony tetraoxide	1332-81-6	-	215-576-0	0.01-0.1	None	-

**Additional information:**

Full text of H- and EUH-statements, see SECTION 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General advice:**

If medical advice is needed, have product container or label at hand.

**After inhalation:**

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTRE/doctor, if you feel unwell.

**After skin contact:**

Wash with plenty of soap and water.

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

**After eye contact:**

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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:**

Acute and delayed effects are as indicated in sections 2 and 11.

• **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 CO<sub>2</sub>, chemical powder, water spray or alcohol resistant foam to extinguish.

• **Unsuitable extinguishing media:**

No known unsuitable extinguishing media.

• **5.2 Special hazards arising from the substance or mixture:**

May produce allergic dust 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:**

Protective gloves/ respiration protection.

**Emergency procedures:**

Ensure adequate ventilation.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

Avoid breathing dust.

Avoid contact with skin.

Avoid release to the environment.

• **6.1.2 For emergency responders**

**Personal protective equipment:**

Protective gloves/ respiration protection.

• **6.2 Environmental precautions:**

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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:**

Pick up mechanically.  
Dispose contaminated material as waste according to section 13.

**• 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:**

Read carefully and follow all instructions.  
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.  
Avoid breathing dust.  
Avoid contact with skin.  
Avoid release to the environment.

**• Information about fire and explosion protection:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
Keep away from clothing and other combustible materials.

**• 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:**

Keep out of reach of children.  
Keep away from flammable substance.

**• Further information about storage conditions:**

Store locked up.

**• Storage class:**

5.1 A.

**• 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

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14808-60-7 Silicon dioxide		
Austria	0.15 mg/m <sup>3</sup> respirable aerosol	-
Belgium	0.1 mg/m <sup>3</sup>	-
Denmark	0.3 mg/m <sup>3</sup> inhalable aerosol 0.1 mg/m <sup>3</sup> respirable aerosol	0.6 mg/m <sup>3</sup> inhalable aerosol 0.2 mg/m <sup>3</sup> respirable aerosol
Finland	0.05 mg/m <sup>3</sup> Respirable fraction	-
France	0.1 mg/m <sup>3</sup> respirable aerosol	-
Hungary	0.15 mg/m <sup>3</sup> respirable aerosol	-
Ireland	0.1 mg/m <sup>3</sup> Respirable fraction	-
Spain	0.1 mg/m <sup>3</sup>	-
Sweden	0.1 mg/m <sup>3</sup> respirable aerosol	-
1314-13-2 Zinc oxide		
Belgium	2 mg/m <sup>3</sup> Respirable fraction	10 mg/m <sup>3</sup> Respirable fraction; 15 minutes average value
Finland	2 mg/m <sup>3</sup>	10 mg/m <sup>3</sup> 15 minutes average value
Latvia	0.5 mg/m <sup>3</sup>	-
9005-25-8 Starch		
Belgium	10 mg/m <sup>3</sup>	-
Ireland	10 mg/m <sup>3</sup> Inhalable fraction; 4 mg/m <sup>3</sup> Respirable fraction	-
Spain	10 mg/m <sup>3</sup> inhalable aerosol;	-
United Kingdom	10 mg/m <sup>3</sup> Inhalable fraction; 4 mg/m <sup>3</sup> Respirable fraction	-
8050-09-7 Rosin		
Latvia	4 mg/m <sup>3</sup>	-
United Kingdom	0.05 mg/m <sup>3</sup>	0.15 mg/m <sup>3</sup>
21645-51-2 Aluminum hydroxide		
Germany (DFG)	4 mg/m <sup>3</sup> inhalable aerosol 1,5 mg/m <sup>3</sup> respirable aerosol	-
Latvia	6 mg/m <sup>3</sup>	-
Poland	2.5 mg/m <sup>3</sup> (fume, total dust) 1.2 mg/m <sup>3</sup> (fume, respirable dust)	-

**• DNELs:**

DNEL type		DNEL worker value	DNEL consumer value
7723-14-0 Phosphorus, elemental			
Systemic effects	Long-term, inhalation exposure	97.95 mg/m <sup>3</sup>	28.99 mg/m <sup>3</sup>
	Long-term, dermal exposure	5 555.6 mg/kg bw/day	3 333.3 mg/kg bw/day
	Long-term, oral exposure	-	33.33 mg/kg bw/day

**• PNECs:**

PNEC type	Value
1314-13-2 Zinc oxide	

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Freshwater	14.4 - 17.9 µg/L
Marine water	7.2 - 9 µg/L
Sewage treatment plant (STP)	100 - 124.5 µg/L
Sediment (freshwater)	146.9 - 182.8 mg/kg sediment dw
Sediment (marine water)	162.2 - 201.9 mg/kg sediment dw
Soil	83.1 - 103.4 mg/kg soil dw
7723-14-0 Phosphorus, elemental	
Freshwater	2.5 ng/L
Intermittent releases (freshwater)	2.5 ng/L
Marine water	0.25 ng/L

• **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.

See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Eye and face protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



**Safety glasses**

Protective goggles with side-shields.

• **Skin protection**

• **Hand protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



**Protective gloves**

Gloves made from butyl rubber Neoprene™ rubber, nitrile rubber (thickness > 0.3mm; breakthrough times up to 480 minutes).

• **Other skin protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:



**Face protection**



**Safety boots**



**Safety overalls**

Face shield, gauntlets, boots, bodysuit are recommended.

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**Trade Name:** Survival Match**· Respiration protection:**

Not required under normal conditions of use.

For industrial applications, following protection required:

**Respiratory equipment**

Use positive pressure breathing mask if concentrations in air could exceed occupational exposure standard.

**· Thermal hazards:**

Not required under normal conditions of use.

For industrial applications, following protection required:

The gauntlets, boots, bodysuit and other personal protective equipment must be flame retardant and no heat-conducting.

**· 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**

· Physical state	Solid
· Color	Brown
· Odor & Odor threshold	Weak odor
· Melting point/freezing point (or softening point/range)	Not determined
· Boiling point or initial boiling point and boiling range	Not determined
· Flammability	Not determined
· Lower and upper explosion limit	Not determined
· Flash point	Not applicable
· Auto-ignition temperature	Not determined
· Decomposition temperature	Not determined
· pH	Not determined
· Kinematic viscosity (mm <sup>2</sup> /s)	Not applicable
· Solubility	Not determined
· Partition coefficient n-octanol/water (log value)	Not applicable
· Vapor pressure	Not applicable
· Density and/or relative density	Not determined
· Relative vapor density	Not applicable
· 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

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· 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 determined
· Organic peroxides	Not applicable
· Corrosive to metals	Not applicable
· Desensitised explosives	Not applicable
<b>· 9.2.2 Other safety characteristics</b>	
· Mechanical sensitivity	Not applicable
· Self-accelerating polymerisation temperature	Not applicable
· Formation of explosible dust/air mixtures	Not applicable
· 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:

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High temperature and flame.

**• 10.5 Incompatible materials:**

Strong oxidizing agent, acids 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:**

Harmful if inhaled.

ATE <sub>mix</sub> (inhal.)	=	3 mg/l(dusts/mist)
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Species	Effective Dose	Results	Method/Source
<i>1314-13-2 Zinc oxide</i>			
Mouse	LD50-oral	7950 mg/kg	Gigiena i Sanitariya. For English translation, see HYSAAV., 51(4)(89), 1986.
Mouse	LC50-inhalation	2500 mg/m <sup>3</sup>	International Polymer Science and Technology., 3(93), 1976.
Rat	LD50-dermal	>2000 mg/kg	ECHA registered dossier.
<i>61790-53-2 Diatomaceous earth</i>			
Rat	LD50-oral	3160 mg/kg	Agricultural Research Service, USDA Information Memorandum., 20(9), 1966.
<i>8050-09-7 Rosin</i>			
Rat	LD50-oral	>2000 mg/kg	ECHA registered dossier.
Rat	LD50-dermal	>2000 mg/kg	ECHA registered dossier.

**• 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:**

May cause an allergic skin reaction.

**• 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.

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**· 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:**

Species	Effect dose	Test duration	Value
1314-13-2 Zinc oxide			
Danio rerio	LC50	96h	1.55 mg/L
Danio rerio	EC50	84h	2.065 mg/L
Daphnia magna	EC50	48h	1.7-9 mg/L
Daphnia magna	NOEC	21d	60.8 $\mu\text{g/L}$
Desmodesmus subspicatus	NOEC	72h	0.42 mg/L
Desmodesmus subspicatus	EC50	72h	3.50 mg/L
Spirodela polyrhiza	NOEC	96h	10-50 mg/L
7723-14-0 Phosphorus, elemental			
Gadus morrhua	LC50	48h	14.4 $\mu\text{g/L}$
Daphnia Magna	NOEC	48h	0.03 mg/L
Activated sludge	EC50	3h	>1000 mg/L
Activated sludge	NOEC	3h	$\geq 1000$ mg/L

**· 12.2 Persistence and degradability:** No available data.

**· 12.3 Bio-accumulative potential:** No available data.

**· 12.4 Mobility in soil:**

CAS	Substance	Surface tension (mN/m)	Log Koc
1314-13-2	Zinc oxide	-	3.24

**· 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.

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**· 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:**

WGK2 (German Regulation) (self-assessment): obviously hazardous to water.

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

### SECTION 13: Disposal consideration

**· 13.1 Waste treatment methods**

**· Recommendation:**

Must not be disposed together with household garbage.

**· 13.2 Un-cleaned packaging**

**· Recommendation:**

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

### SECTION 14: Transport information

**· 14.1 UN-Number**

<b>ADR/ADN/RID (2023 Edition)</b>	UN1944
<b>IMO/IMDG (41-22)</b>	UN1944
<b>IATA-DGR (65th)</b>	UN1944

**· 14.2 UN proper shipping name**

<b>ADR/ADN/RID (2023Edition)</b>	Matches, safety
<b>IMO/IMDG (41-22)</b>	Matches, safety
<b>IATA-DGR (65th)</b>	Matches, safety

**· 14.3 Transport hazard class (es)**

<b>ADR/ADN/RID (2023Edition)</b>	
<b>Class</b>	4.1 Flammable solids
<b>Label</b>	4.1
<b>IMO/IMDG (41-22)</b>	
<b>Class</b>	4.1 Flammable solids



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<b>Label</b>	4.1
<b>IATA-DGR (65th)</b>	
<b>Class</b>	4.1 Flammable solids
<b>Label</b>	4.1
· 14.4 Packing group	
<b>ADR/ADN/RID (2023Edition)</b>	III
<b>IMO/IMDG (41-22)</b>	III
<b>IATA-DGR (65th)</b>	III
· 14.5 Marine pollution	
<b>Marine Pollutants (Yes/No)</b>	Yes
<b>Special mark (ADR/ADN/RID)</b>	Symbol (fish and tree)
· 14.6 Special precautions for user	
· <b>Danger code (Kemler)</b>	Warning: Flamm. Solids
· <b>EMS number</b>	40
· <b>EMS number</b>	
F-A, S-I	
· 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
-	
<b>Additional information</b>	
<b>Land transport (ADR/RID)</b>	
Limited quantity	5 kg
Special provisions	293
<b>Inland waterway transport (ADN)</b>	
Limited quantity	5 kg
Special provisions	293
<b>Sea transport (IMO-IMDG)</b>	
Limited quantity	5 kg
Special provisions	293, 294
<b>Air transport (IATA-DGR)</b>	
Limited quantity	Passenger and Cargo Aircraft: 25 kg Cargo Aircraft Only: 100 kg
Special provisions	A125

### SECTION 15: Regulatory information

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

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

14808-60-7	Silicon dioxide (respirable fraction)	1
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· **Directive 2012/18/EU**

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

None of the ingredients is listed.

· **Seveso category:**

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## Safety Data Sheet

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*E2 Hazardous to the Aquatic Environment*

- **Qualifying quantity (tonnes) for the application of lower-tier requirements:** 200
- **Qualifying quantity (tonnes) for the application of upper-tier requirements:** 500
- **National regulations.**
- **Water hazard class:**

*WGK2 (German Regulation) (self-assessment): obviously hazardous to water.*

- **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*

*Ox. Liq. 1: Oxidising liquids, hazard category 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*

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

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

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

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

**• 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) 1272/2008 [CLP]:**

See section 2.1 (classification).

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

H271 May cause fire or explosion; strong oxidizer

H302 Harmful if swallowed

H315 Causes skin irritation

H317 May cause an allergic skin reaction

H319 Causes serious eye irritation

H332 Harmful if inhaled

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

**• 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.

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End of safety data sheet

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