

# Shading Solution LUXE

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 28.08.2023 Revision date: 31.08.2023 Supersedes version of: 28.08.2023 Version: 2.0

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : Shading Solution LUXE  
Product code : LXTDSS  
Product group : Finished Ink

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

##### 1.2.1. Relevant identified uses

No additional information available

##### 1.2.2. Uses advised against

No additional information available

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

Ink Projects LLC  
460 Greenway Industrial Drive, Suite A  
29708 Fort Mill, SC

#### 1.4. Emergency telephone number

Emergency number : +1-813-248-0585. In case of emergency search for territorial toxicological emergency number or call 112

Country	Organisation/Company	Address	Emergency number	Comment
Algeria		Algiers		
Australia		Westmead		
Austria		Vienna		
Belarus		Minsk		
Belgium		Brussels		Please dial: 070 245 245 for any urgent questions about intoxication (free of charge 24/7), if not accessible, dial: 02 264 96 30 (standard fee)
Bulgaria		Sofia		The phone is active 24/7 and calls to it are free
Croatia		Zagreb		Information available 24/7 in Croatian and English
Cyprus		Nicosia		Operating hours 24 hours / 24 hours, 7 days a week

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Country	Organisation/Company	Address	Emergency number	Comment
Czech Republic		Prague		and only in the event of a malfunction, phone 725 103 658 (otherwise there may not be a toxicologist on this phone!) Questions about ACUTE INTOXICATION of people and animals are dealt with exclusively on TIS direct telephone lines 24 hours a day
Denmark		Copenhagen		
Estonia		Tallinn		Calling the hotline is anonymous and at the cost of a local call.
Finland		Helsinki		Open 24 hours a day 0800 147 111 (free of charge) 09 471 977 (normal rate call)
France	Centre antipoison d'Angers	Angers Cedex 9		
Germany		Berlin		
Greece		Athens		
Hungary		Budapest		Emergency number 1: (0-24 hours, free of charge - only from Hungary) Emergency number 2: (0-24 hours, can be called for a normal fee - also from abroad)
Iceland		Reykjavik		Around the clock, every day
Ireland		Dublin		
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel		Haifa		
Italy		Bergamo	+39 800 88 33 00	
Jordan		Amman		
Kazakhstan		Almaty		
Latvia		Riga		works 24 hours a day
Lithuania		Vilnius	+370 (85) 236 20 52	

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Country	Organisation/Company	Address	Emergency number	Comment
Luxembourg		Brussels		Free telephone number with a 24/7 access. Experts answer all urgency questions on dangerous products in French, Dutch and English
Malta		Msida Msida		
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090 Msida	+356 2545 6508	
Mexico		Mexico City		
Morocco		Rabat		
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC)	Huispostnummer Q03.2.315 Utrecht		Only for the purpose of informing medical personnel in cases of acute intoxications (24 hours a day, 7 days a week)
Norway		Folkehelseinstituttet Postboks 222 Skøyen 0213 Oslo		Operating hours 24 hours / 24 hours, 7 days a week
Poland		Gdańsk	+48 512 069 737	
Portugal		Lisbon		
Romania	Spitalul Clinic de Urgenta pentru Copii „Grigore Alexandrescu”	Bucharest		
Russia		Moscow		
Saudi Arabia		Riyadh		
Serbia		Belgrade		
Slovakia		Bratislava	+421 911 166 066	
Slovenia		Ljubljana		
Spain		Las Rozas de Madrid	+34 91 411 26 76 (teléfono solo para médicos)	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden		Solna		
Switzerland		Zürich	+41 44 251 51 51	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
Tunisia		Tunis		
Turkey	Ulusal Zehir Danışma Merkezi (UZEM) Halk Sağlığı Genel Müdürlüğü, T.C. Sağlık Bakanlığı	Sağlık Mahallesi Adnan Saygun Cad. No:55 Sıhhiye 06430 Ankara		Information is provided to public and medical personnel on poisoning incidents via 114.
United Arab Emirates		Abu Dhabi		

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Country	Organisation/Company	Address	Emergency number	Comment
United Kingdom		Belfast		Only for healthcare professionals
United Kingdom	National Poisons Information Service (Belfast Centre) Royal Victoria Hospital	Grosvenor Road BT12 6BA Belfast	0344 892 0111	Only for healthcare professionals

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Not classified

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

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

### 2.2. Label elements

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

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.  
EUH210 - Safety data sheet available on request.

### 2.3. Other hazards

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

Component	
Glycerin (56-81-5)	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
Sodium Benzoate (532-32-1)	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
Citric Acid (77-92-9)	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
Potassium Sorbate (24634-61-5)	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

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 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aqua	CAS-No.: 7732-18-5 EC-No.: 231-791-2	75 – 80	Not classified

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Glycerin	CAS-No.: 56-81-5 EC-No.: 200-289-5	15 – 25	Acute Tox. 4 (Inhalation:dust,mist), H332
Sodium Benzoate	CAS-No.: 532-32-1 EC-No.: 208-534-8	0,1 – 0,5	Acute Tox. 4 (Dermal), H312 Eye Irrit. 2, H319 STOT RE 2, H373 Aquatic Chronic 3, H412
Citric Acid	CAS-No.: 77-92-9 EC-No.: 201-069-1 EC Index-No.: 607-750-00-3	0,1 – 0,5	Skin Corr. 1, H314 Eye Dam. 1, H318 STOT SE 3, H335
Potassium Sorbate	CAS-No.: 24634-61-5 EC-No.: 246-376-1 EC Index-No.: 019-003-00-3	0,1 – 0,5	Skin Irrit. 2, H315 Eye Irrit. 2, H319

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

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.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Call a poison center or a doctor if you feel unwell.

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

No additional information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
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#### 5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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#### 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.
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### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

##### 6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area.
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##### 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".
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### 6.2. Environmental precautions

Avoid release to the environment.

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

Methods for cleaning up : Take up liquid spill into absorbent material.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

### 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

Glycerin (56-81-5)	
Belgium - Occupational Exposure Limits	
Local name	Glycérine (brouillard) # Glycerine (nevel)
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Koninklijk besluit/Arrêté royal 19/11/2020
Croatia - Occupational Exposure Limits	
Local name	Glicerol
GVI (OEL TWA) [1]	10 mg/m <sup>3</sup>
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 1/2021)
Czech Republic - Occupational Exposure Limits	
Local name	Glycerol, mlha
PEL (OEL TWA)	10 mg/m <sup>3</sup>
PEL (OEL TWA) [ppm]	2,6 ppm
NPK-P (OEL C)	15 mg/m <sup>3</sup>
NPK-P (OEL C) [ppm]	3,9 ppm
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Estonia - Occupational Exposure Limits	
Local name	Glütseriin (glütserool, 1,2,3-propaantriool)

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Glycerin (56-81-5)	
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Vabariigi Valitsuse 20. märtsi 2001. a määruse nr 105 (RT I, 17.10.2019, 2); Vabariigi Valitsuse 10. märtsi 2019. a määruse nr 84
Finland - Occupational Exposure Limits	
Local name	Glyseroli
HTP (OEL TWA) [1]	20 mg/m <sup>3</sup>
Regulatory reference	HTP-ARVOT 2020 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Glycérine (aérosols de)
VME (OEL TWA)	10 mg/m <sup>3</sup>
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany - Occupational Exposure Limits (TRGS 900)	
AGW (OEL TWA) [1]	200 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	2(I)
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
Greece - Occupational Exposure Limits	
Local name	Γλυκερίνη
OEL TWA	10 mg/m <sup>3</sup>
Regulatory reference	Π.Δ. 90/1999 - Προστασία της υγείας των εργαζομένων που εκτίθενται σε ορισμένους χημικούς παράγοντες κατά τη διάρκεια της εργασίας τους
Poland - Occupational Exposure Limits	
Local name	Glicerol
NDS (OEL TWA)	10 mg/m <sup>3</sup> frakcja wdychalna
Remark	Frakcja wdychalna – frakcja aerozolu wnikaćca przez nos i usta, która po zdeponowaniu w drogach oddechowych stwarza zagrożenie dla zdrowia.
Regulatory reference	Dz. U. 2018 poz. 1286
Slovakia - Occupational Exposure Limits	
Local name	Glycerín
NPHV (OEL TWA) [1]	10 mg/m <sup>3</sup>
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z. (236/2020 Z. z.)
Slovenia - Occupational Exposure Limits	
Local name	glicerín
OEL TWA	200 mg/m <sup>3</sup>
OEL STEL	400 mg/m <sup>3</sup>
Remark	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)

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<b>Glycerin (56-81-5)</b>	
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021
<b>Spain - Occupational Exposure Limits</b>	
Local name	Glicerina
VLA-ED (OEL TWA) [1]	10 mg/m <sup>3</sup> nieblas
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2021. INSHT
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Glycerol
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup>
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Glycérine / Glycerin
MAK (OEL TWA) [1]	50 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	100 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VRS / OAW
Notation	SS <sub>C</sub> / SS <sub>C</sub>
Regulatory reference	www.suva.ch, 01.01.2021
<b>Sodium Benzoate (532-32-1)</b>	
<b>Belgium - Occupational Exposure Limits</b>	
OEL TWA	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>
<b>France - Occupational Exposure Limits</b>	
VME (OEL TWA)	7 mg/m <sup>3</sup> 3,5 mg/m <sup>3</sup> (La valeur limite concerne la fraction alvéolaire) 4 mg/m <sup>3</sup> 0,9 mg/m <sup>3</sup> (La valeur limite concerne la fraction alvéolaire)
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	Natriumbenzoat (als Benzoat)
AGW (OEL TWA) [1]	10 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	2(II)
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; H - hautresorptiv
Regulatory reference	TRGS900
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	natrijev benzoat (računano kot benzoat)
OEL TWA	10 mg/m <sup>3</sup>
OEL STEL	20 mg/m <sup>3</sup>
Remark	K (Lastnost lažjega prehajanja snovi v organizem skozi kožo), Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti)
Regulatory reference	Uradni list RS, št. 72/2021 z dne 11.5.2021



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Sodium Benzoate (532-32-1)	
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m <sup>3</sup> 4 mg/m <sup>3</sup>
USA - ACGIH - Occupational Exposure Limits	
Local name	Sodium benzoate, as benzoate
ACGIH OEL TWA	2,5 mg/m <sup>3</sup> (Inhalable fraction)
Remark (ACGIH)	TLV® Basis: Kidney changes. Notations: Skin; A5 (Not Suspected as a Human Carcinogen)
Regulatory reference	ACGIH 2022
Citric Acid (77-92-9)	
Czech Republic - Occupational Exposure Limits	
Local name	Kyselina citrónová
PEL (OEL TWA)	4 mg/m <sup>3</sup>
Remark	Prachy s převážně dráždivým účinkem.
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (Předpis 195/2021 Sb.)
Germany - Occupational Exposure Limits (TRGS 900)	
Local name	Zitronensäure
AGW (OEL TWA) [1]	2 mg/m <sup>3</sup> (E)
Peak exposure limitation factor	2(I)
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
Switzerland - Occupational Exposure Limits	
Local name	Acide citrique / Zitronensäure
MAK (OEL TWA) [1]	2 mg/m <sup>3</sup> (i) / (e)
KZGW (OEL STEL)	4 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VR, Irritation / AW, Reizung
Notation	SS <sub>C</sub> / SS <sub>C</sub>
Regulatory reference	www.suva.ch, 28.03.2022

### 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

No additional information available

### 8.1.5. Control banding

No additional information available

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### 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

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

###### Eye protection:

Safety glasses

##### 8.2.2.2. Skin protection

###### Skin and body protection:

Wear suitable protective clothing

###### Hand protection:

Protective gloves

##### 8.2.2.3. Respiratory protection

###### Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### 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	: Liquid
Colour	: clear.
Odour	: Characteristic odour.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: > 100 °C
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 92 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 7,5 – 8,5
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20°C	: Not available

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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

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified.  
Skin corrosion/irritation : Not classified.  
pH: 7,5 – 8,5

Aqua (7732-18-5)	
pH	7
Glycerin (56-81-5)	
pH	No data available in the literature
Sodium Benzoate (532-32-1)	
pH	7 – 8 (5 %)
Citric Acid (77-92-9)	
pH	1,8 (5 %, 25 °C)
Potassium Sorbate (24634-61-5)	
pH	7,8 (1 %, 20 °C)

Serious eye damage/irritation : Not classified  
pH: 7,5 – 8,5

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<b>Aqua (7732-18-5)</b>	
pH	7
<b>Glycerin (56-81-5)</b>	
pH	No data available in the literature
<b>Sodium Benzoate (532-32-1)</b>	
pH	7 – 8 (5 %)
<b>Citric Acid (77-92-9)</b>	
pH	1,8 (5 %, 25 °C)
<b>Potassium Sorbate (24634-61-5)</b>	
pH	7,8 (1 %, 20 °C)
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
<b>Glycerin (56-81-5)</b>	
Viscosity, kinematic	No data available in the literature
<b>Citric Acid (77-92-9)</b>	
Viscosity, kinematic	Not applicable (solid)
<b>Potassium Sorbate (24634-61-5)</b>	
Viscosity, kinematic	Not applicable (solid)

### 11.2. Information on other hazards

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified
Not rapidly degradable	

### 12.2. Persistence and degradability

<b>Glycerin (56-81-5)</b>	
Persistence and degradability	Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,87 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	1,16 g O <sub>2</sub> /g substance
ThOD	1,217 g O <sub>2</sub> /g substance

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### Sodium Benzoate (532-32-1)

Persistence and degradability	Readily biodegradable in water.
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### Citric Acid (77-92-9)

Persistence and degradability	Biodegradable in the soil. Readily biodegradable in water.
Biochemical oxygen demand (BOD)	0,42 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0,728 g O <sub>2</sub> /g substance
ThOD	0,686 g O <sub>2</sub> /g substance

### Potassium Sorbate (24634-61-5)

Persistence and degradability	Readily biodegradable in water.
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## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

### Glycerin (56-81-5)

Surface tension	63,4 mN/m (20 °C, 1000 g/l)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### Sodium Benzoate (532-32-1)

Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,219 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### Citric Acid (77-92-9)

Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Highly mobile in soil.

### Potassium Sorbate (24634-61-5)

Surface tension	72,6 mN/m (20 °C, 1 g/l, EU Method A.5: Surface tension)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-1,82 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Read-across, GLP)
Ecology - soil	Highly mobile in soil.

## 12.5. Results of PBT and vPvB assessment

### Component

Glycerin (56-81-5)	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
Sodium Benzoate (532-32-1)	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
Citric Acid (77-92-9)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

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### Component

Potassium Sorbate (24634-61-5)

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

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID number</b>				
Not regulated for transport				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
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

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

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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

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

##### REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

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

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

##### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

##### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

##### 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

: Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Water hazard class (WGK)

: WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

Storage class (LGK, TRGS 510)

: LGK 12 - Non-combustible liquids.

Joint storage table

LGK 1	LGK 2A	LGK 2B	LGK 3	LGK 4.1A
LGK 4.1B	LGK 4.2	LGK 4.3	LGK 5.1A	LGK 5.1B
LGK 5.1C	LGK 5.2	LGK 6.1A	LGK 6.1B	LGK 6.1C
LGK 6.1D	LGK 6.2	LGK 7	LGK 8A	LGK 8B
LGK 10	LGK 11	LGK 12	LGK 13	LGK 10-13

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7.

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C.

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13.

Hazardous Incident Ordinance (12. BImSchV)

: Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

##### Netherlands

ABM category

: B(4) - low hazard for aquatic organisms

SZW-lijst van kankerverwekkende stoffen

: None of the components are listed

SZW-lijst van mutagene stoffen

: None of the components are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding

: None of the components are listed

SZW-lijst van reprotoxische stoffen –

: None of the components are listed

Vruchtbaarheid

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SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed  
Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### Switzerland

Storage class (LK) : LK 10/12 - Liquids

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

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
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	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
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)



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### Abbreviations and acronyms:

TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

### Full text of H- and EUH-statements:

Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
EUH210	Safety data sheet available on request.
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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.