

**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: 2022-03-25

EFSH22031267-CG-01

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

· **1.1 Product identifier**

· **Trade name:**

Color marker pen ink

· **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, writing.

· **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:**

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

No information available.

· **Further information obtainable from:**

· **1.4 Emergency telephone number**

Country	Official advisory body	Address	Emergency number	Remark
Austria	Vergiftungsinformationszentrale (Poisons Information Centre)	Stubenring 6 1010 Wien	+43 1 406 43 43	
Belgium	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 B -1120 Bruxelles/Brussel	+32 70 245 245	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)

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Bulgaria	Национален токсикологичен информационен център (National Toxicological Information Centre) Многопрофилна болница за активно лечение и спешна медицина "Н.И.Пирогов" (National Clinical Toxicology Centre), Emergency Medical Institute "Pirogov"	21 Tottleben Boulevard 1606 SOFIA	+359 2 9154 409	
Croatia	Centar za kontrolu otrovanja Institut za medicinska istraživanja i medicinu rada	Ksaverska Cesta 2 p.p. 291 10000 Zagreb	+385 1 234 8342	
Cyprus	Κέντρου Δηλητηριάσεων		1401	Operating hours 24 hours / 24 hours, 7 days a week
Czech Republic	ToxikologickéinformačnístřediskoKlinickápracovníholékařstvíVFN a 1. LF UK	Na Bojišti 1 120 00 Praha 2	+420 224 919 293 +420 224 915 402	
Denmark	Giftlinjen Bispebjerg Hospital	Bispebjerg Bakke 23 2400 København NV	+45 82 12 12 12	
Estonia	Mürgistusteabekeskus	Gonsiori 29 15027 Tallinn	16662 +372 626 93 90	
Finland	Myrkytystietokeskus	Stenbäckinkatu 9 PO BOX 100 29 Helsinki	+358 9 471 977 +358 9 4711	
France	Centre Antipoison et de Toxicovigilance de Paris Hôpital Fernand Widal	200 rue du Faubourg Saint-Denis 75475 Paris Cedex 10	+33 1 40 05 48 48	
France	Centre Antipoison et de Toxicovigilance de Marseille Hôpital Sainte Marguerite	270 boulevard de Sainte Marguerite 13274 Marseille Cedex 09	+33 4 91 75 25 25	
Germany	Giftnotruf München Toxikologische Abteilung der II. Med. Klinik und Poliklinik rechts der Isar der Technischen Universität München	Ismaninger Straße 22 81675 München	+49 (0) 89 19240	
Germany	Giftnotruf der Charité CBF, Haus VIII (Wirtschaftgebäude), UG	Hindenburgdamm 30 12203 Berlin	+49 (0) 30 19240	

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Greece	Poisons Information Centre Children's Hospital P&A Kyriakou	11762 Athens	+30 2 10 779 3777	
Hungary	Országos Kémiai Biztonsági Intézet Egészségügyi Toxikológiai Tájékoztató Szolgálat	Nagyvárad tér 2. 1437 Budapest, Pf. 839 1097 Budapest	+36 80 20 11 99	
Iceland	Eitrunarmiðstöð Landspítali	Fossvogi 108 Reykjavik	+354 543 22 22	
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)	
Italy	Centro Antiveleni Dipartimento di Tossicologia Clinica, Università Cattolica del Sacro Cuore	Largo Agostino Gemelli 8 168 Roma	+39 06 305 4343	
Latvia	Valsts Toksikoloģijas centrs, Saindēšanās un zāļu informācijas centrs	Hipokrāta 2 1038 Rīga	+371 67 04 24 73	
Lithuania	Apsinuodijimų informacijos biuras	Birutės g. 56 8110 Vilnius	+370 5 236 20 52 +370 687 53378	
Luxembourg	Centre Anti-Poisons/ Antigifcentrum c/o Hôpital Central de la Base - Reine Astrid	Rue Bruyn 1 1120 Bruxelles/Brussel	+352 8002 5500	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
Netherlands	Nationaal Vergiftigingen Informatie Centrum Universitair Medisch Centrum Utrecht, Het Nationaal Vergiftigingen Informatie Centrum (NVIC) informeert (dieren-) artsen, apothekers en andere professionele hulpverleners over de mogelijke gezondheidseffecten en behandelingsmogelijkheden bij vergiftigingen. Het NVIC is hiervoor	Huispostnummer B.00.118 PO Box 85500 3508 GA Utrecht	+31 30 274 88 88	Only for the purpose of informing medical personnel in cases of acute intoxications

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	dag en nacht bereikbaar, zowel telefonisch als via internet			
Norway	Giftinformasjonen Helsedirektoratet	P.O. Box 7000 St. Olavs Plass 130 Oslo	+47 22 591300	
Poland	National Poisons Information Centre The Nofer Institute of Occupational Medicine (Łódź)	ul. Teresy 8 P.O. BOX 199 90950 Łódź	+48 42 63 14 724	
Portugal	Centro de Informação Antivenenos Instituto Nacional de Emergência Médica	Rua Almirante Barroso, 36 1000-013 Lisboa	+351 808 250 143	
Romania	Department of Clinical Toxicology Spitalul de Urgenta Floreasca	Calea Floreasca Bucuresti	+40 21 230 8000	
Serbia	Nacionalni centar za kontrolu trovanja - VMA	Crnotravska 17 11000 Beograd	+381 11 360 84 40 (24h) +381 11 3672 187	
Slovakia	Národné toxikologické informačné centrum Univerzitná nemocnica Bratislava, pracovisko Kramáre, Klinika pracovného lekárstva a toxikológie	Limbová 5 833 05 Bratislava	+421 2 54 77 41 66	
Slovenia	Center za kliničnotoksikologijo in farmakologijo Internaklinika, UKCL	Zaloška cesta 7 1525 Ljubljana	+386 41 650 500	
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Sevilla	Carretera de San Jerónimo Km 0,4 41080 Sevilla	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Spain	Servicio de Información Toxicológica Instituto Nacional de Toxicología y Ciencias Forenses, Departamento de Madrid	C/José Echegaray nº4 28232 Las Rozas de Madrid	+34 91 562 04 20	(Toxicological emergencies only). Information in Spanish (24/7)
Sweden	Giftinformationscentralen	Box 60 500 171 76 Stockholm	112 – begär Giftinformation +46 10 456 6700 (Från utlandet)	
Switzerland	Tox Info Suisse	Freiestrasse 16 8032 Zürich	145	(from abroad: +41 44 251 51 51) non urgent inquiry: +41 44 251 66 66
United Kingdom	National Poisons Information	Grosvenor Road	0344 892 0111	Only for the

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Kingdom	Service (Belfast Centre) Royal Victoria Hospital	BT12 6BA Belfast		purpose of informing medical personnel in cases of acute intoxications
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## 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
Eye Dam. 1, H318	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:**

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

- **Hazard pictograms:**



GHS05

- **Signal word:**

Danger

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

Isotredecanol, ethoxylated.

- **Hazard statements:**

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H318	Causes serious eye damage
<b>• Precautionary statement:</b>	
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.
P280	Wear eye protection/ face protection.
P305+P351+P338+P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
<b>• Supplemental label elements:</b>	
Not applicable	
<b>• 2.3 Other hazards</b>	
None of the ingredients (≥0.1%) meets the criteria for PBT/vPvB in accordance with Annex XIII.	
None of the ingredients (≥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:**

Color marker pen ink.

<b>Ingredients:</b>						
<b>Substance</b>	<b>CAS No.</b>	<b>Index No.</b>	<b>EC No.</b>	<b>w/w, %</b>	<b>CLP Classification</b>	<b>SCL/M-factor/ATE</b>
<b>Purple</b>						
Water	7732-18-5	-	231-791-2	86.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 51	16423-68-0	-	240-474-8	2.5	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE (oral)=1840 mg/kg
Acid Blue 9	3844-45-9	-	223-339-8	0.5	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Yellow</b>						
Water	7732-18-5	-	231-791-2	87.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Tartrazine	1934-21-0	-	217-699-5	2	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Sky blue</b>						
Water	7732-18-5	-	231-791-2	87.4	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Blue 9	3844-45-9	-	223-339-8	2.5	None	-

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Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Aqua blue</b>						
Water	7732-18-5	-	231-791-2	86.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Blue 9	3844-45-9	-	223-339-8	2.5	None	-
Acid Red 51	16423-68-0	-	240-474-8	0.5	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Light green</b>						
Water	7732-18-5	-	231-791-2	88.3	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Blue 9	3844-45-9	-	223-339-8	1	None	-
Acid Red 51	16423-68-0	-	240-474-8	0.6	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Dark green</b>						
Water	7732-18-5	-	231-791-2	86.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Tartrazine	1934-21-0	-	217-699-5	2	None	-
Acid Blue 9	3844-45-9	-	223-339-8	1	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Orange</b>						
Water	7732-18-5	-	231-791-2	88.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 18	2611-82-7	-	220-036-2	0.6	None	-
Tartrazine	1934-21-0	-	217-699-5	0.4	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Pink</b>						
Water	7732-18-5	-	231-791-2	88.5	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 51	16423-68-0	-	240-474-8	1.2	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Acid Red 18	2611-82-7	-	220-036-2	0.2	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Rose red</b>						
Water	7732-18-5	-	231-791-2	87.8	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 18	2611-82-7	-	220-036-2	2	None	-
Acid Blue 9	3844-45-9	-	223-339-8	0.1	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-

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<b>Red</b>						
Water	7732-18-5	-	231-791-2	87.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 51	16423-68-0	-	240-474-8	2	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Black</b>						
Water	7732-18-5	-	231-791-2	76.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Acid Red 51	16423-68-0	-	240-474-8	7	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Acid Blue 9	3844-45-9	-	223-339-8	3.5	None	-
Tartrazine	1934-21-0	-	217-699-5	2.5	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Brown</b>						
Water	7732-18-5	-	231-791-2	89.74	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
Acid Red 51	16423-68-0	-	240-474-8	0.08	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Acid Blue 9	3844-45-9	-	223-339-8	0.05	None	-
Tartrazine	1934-21-0	-	217-699-5	0.03	None	-
<b>Water pink</b>						
Water	7732-18-5	-	231-791-2	90.7	None	-
Glycerin	56-81-5	-	200-289-5	8	None	-
Acid Red 51	16423-68-0	-	240-474-8	1	Acute Tox. 4, H302 Aquatic Chronic 4, H413	ATE(oral)=1840 mg/kg
Acid Red 18	2611-82-7	-	220-036-2	0.2	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Skin</b>						
Water	7732-18-5	-	231-791-2	92.3	None	-
Glycerin	56-81-5	-	200-289-5	7	None	-
Tartrazine	1934-21-0	-	217-699-5	0.45	None	-
Acid Red 18	2611-82-7	-	220-036-2	0.25	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Blue green</b>						
Water	7732-18-5	-	231-791-2	84.9	None	-
Glycerin	56-81-5	-	200-289-5	10	None	-
Tartrazine	1934-21-0	-	217-699-5	4	None	-



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Acid Blue 9	3844-45-9	-	223-339-8	1	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-
<b>Fruit powder</b>						
Water	7732-18-5	-	231-791-2	70.5	None	-
Isotridecanol, ethoxylated	9043-30-5	-	500-027-2	15	Acute Tox. 4, H302 Eye Dam. 1, H318	ATE(oral)=500 mg/kg
Propylene glycol	57-55-6	-	200-338-0	9.9	None	-
Tartrazine	1934-21-0	-	217-699-5	4	None	-
Acid Red 18	2611-82-7	-	220-036-2	0.5	None	-
Sodium benzoate	532-32-1	-	208-534-8	0.1	Eye Irrit. 2, H319	-

**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:**

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

**After inhalation:**

Supply with fresh air.

Get medical attention if you feel unwell.

**After skin contact:**

Wash with water.

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

**After eye contact:**

Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

**After swallowing:**

Rinse mouth.

Call a POISON CENTER/doctor if you feel unwell.

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

Causes serious eye damage.

· **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:**

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Water with full jet.

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

May produce irritant vapor 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, eye protection, face protection and respiration protection.

**Emergency procedures:**

Evacuate immediately.

Ensure adequate ventilation.

Avoid breathing vapor.

Avoid contact with eyes.

· **6.1.2 For emergency responders**

**Personal protective equipment:**

Protective gloves, eye protection, face protection 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:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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.

Ensure adequate ventilation at workplace.

Wear protective gloves/ eye protection/ face protection.

Avoid breathing vapor.

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Avoid contact with eyes.

• **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:**

Keep out of reach of children.

• **Further information about storage conditions:**

Store locked up.

• **Storage class:**

12.

• **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
56-81-5 Glycerin, mist		
Belgium	10 mg/m <sup>3</sup>	-
Finland	20 mg/m <sup>3</sup>	-
France	10 mg/m <sup>3</sup>	-
Germany (AGS)	200 mg/m <sup>3</sup> Inhalable fraction	400 mg/m <sup>3</sup> Inhalable fraction; 15 minutes average value
Germany (DFG)	200 mg/m <sup>3</sup> Inhalable fraction	400 mg/m <sup>3</sup> Inhalable fraction; 15 minutes average value
Ireland	10 mg/m <sup>3</sup>	-
Poland	10 mg/m <sup>3</sup>	-
Spain	10 mg/m <sup>3</sup>	-
United Kingdom	10 mg/m <sup>3</sup>	-
532-32-1 Sodium benzoate(as benzoate)		
Germany (AGS)	10mg/m <sup>3</sup> Inhalable fraction; Skin	20mg/m <sup>3</sup> Inhalable fraction; Skin; 15 minutes average value
57-55-6 Propylene glycol(total vapour and particulates)		
Ireland	150 ppm; 470 mg/m <sup>3</sup>	-
United Kingdom	150 ppm; 474 mg/m <sup>3</sup>	-

• **DNELs:**

DNEL type	DNEL worker value	DNEL consumer value

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56-81-5 Glycerin			
Local effects	Long-term, inhalation exposure	220 mg/m <sup>3</sup>	132 mg/m <sup>3</sup>
532-32-1 Sodium benzoate			
Systemic effects	Long-term, inhalation exposure	3 mg/m <sup>3</sup>	1.5 mg/m <sup>3</sup>
	Long-term, dermal exposure	62.5 mg/kg bw/day	31.25 mg/kg bw/day
	Long-term, oral exposure	-	16.6 mg/kg bw/day
Local effects	Long-term, inhalation exposure	100 µg/m <sup>3</sup>	60 µg/m <sup>3</sup>
57-55-6 Propylene glycol			
Systemic effects	Long-term, inhalation exposure	168 mg/m <sup>3</sup>	50 mg/m <sup>3</sup>
Local effects	Long-term, inhalation exposure	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

• **PNECs:**

PNEC type	Value
56-81-5 Glycerin	
Sewage treatment plant (STP)	1 g/L
532-32-1 Sodium benzoate	
Freshwater	130 µg/L
Intermittent releases (freshwater)	305 µg/L
Marine water	13 µg/L
Sewage treatment plant (STP)	10 mg/L
Sediment (freshwater)	1.76 mg/kg sediment dw
Sediment (marine water)	176 µg/kg sediment dw
57-55-6 Propylene glycol	
Freshwater	260 mg/L
Intermittent releases (freshwater)	183 mg/L
Marine water	26 mg/L
Sewage treatment plant (STP)	20 g/L
Sediment (freshwater)	572 mg/kg sediment dw
Sediment (marine water)	57.2 mg/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.

See section 7 for information about design of technical facilities.

• **Personal protective equipment**

• **Eye and face protection:**



**Safety glasses**

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Protective goggles with side-shields.

- **Skin protection**
- **Hand protection:**



Protective gloves

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

- **Other skin protection:**

Gauntlets, boots, bodysuit are recommended.

- **Respiration protection:**

Respiration protection 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**

• <b>Physical state</b>	Liquid
• <b>Color</b>	Various
• <b>Odor &amp; Odor threshold</b>	Odorless
• <b>Melting point/freezing point (or softening point/range)</b>	Not determined
• <b>Boiling point or initial boiling point and boiling range</b>	100°C (Water)
• <b>Flammability</b>	Not flammable liquid
• <b>Lower and upper explosion limit</b>	Not determined
• <b>Flash point</b>	191°C (glycerin)
• <b>Auto-ignition temperature</b>	400°C (glycerin)
• <b>Decomposition temperature</b>	Not determined
• <b>pH</b>	4-8 (20°C)
• <b>Kinematic viscosity (mm<sup>2</sup>/s)</b>	Not determined
• <b>Solubility</b>	Soluble in water
• <b>Partition coefficient n-octanol/water (log value)</b>	Not determined
• <b>Vapor pressure</b>	Not determined
• <b>Density and/or relative density</b>	Not determined
• <b>Relative vapor density</b>	Not determined
• <b>Particle characteristics</b>	Not determined

- **9.2 Other information**

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<b>· 9.2.1 Information with regard to physical hazard classes:</b>	
· 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
<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 determined
· Evaporation rate	Not determined
· Miscibility	Not determined
· Conductivity	Not determined
· Corrosiveness	Not determined
· 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 no-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.

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• **10.4 Conditions to avoid:**

High temperatures and direct sunlight.

• **10.5 Incompatible materials:**

Strong oxidizing agents.

• **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:**

56-81-5 Glycerin

Guinea pig	LD50-oral	7750mg/kg
Rat	LD50-oral LC50-inhalation	12600mg/kg > 570mg/m <sup>3</sup> /1H
Mouse	LD50-oral	4090mg/kg
Rabbit	LD50-oral LD50-skin	27000mg/kg >10000mg/kg

16423-68-0 Acid Red 51

Mouse	LD50-oral	1264mg/kg
Rat	LD50-oral	1840mg/kg

532-32-1 Sodium benzoate

Rat	LD50-oral	4070mg/kg
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57-55-6 Propylene glycol

Guinea pig	LD50-oral	18350mg/kg
Rabbit	LD50-skin LD50-oral	20800mg/kg 18500mg/kg
Rat	LD50-oral	20000mg/kg
Mouse	LD50-oral	22000mg/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:**

Causes serious eye damage

• **Respiratory or skin sensitization:**

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

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• **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.

• **Summary of evaluation of the CMR properties:**

Not classified as CMR product.

• **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 (>=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:**

<b>LC50/EC50/NOEC values relevant for classification:</b>	
56-81-5 Glycerin	
Short-term toxicity to fish	LC50 (4 days) 54 g/L
Short-term toxicity to aquatic invertebrates	EC50 (24 h) 10 g/L
532-32-1 Sodium benzoate	
Short-term toxicity to fish	LC50 (4 days) 484 mg/L NOEC (4 days) 392.5 mg/L
Long-term toxicity to fish	LC50 (24 h) 1.4 - 1.5 g/L NOEC (6 days) 10 mg/L
Short-term toxicity to aquatic invertebrates	LC50 (4 days) 100 mg/L
Toxicity to aquatic algae and cyanobacteria	EC50 (72 h) 30.5 mg/L
Toxicity to microorganisms	NOEC (7 days) 100 mg/L
57-55-6 Propylene glycol	
Short-term toxicity to fish	LC50 (4 days) 40.613 g/L
Short-term toxicity to aquatic invertebrates	LC50 (4 days) 18.8 g/L



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Long-term toxicity to aquatic invertebrates	NOEC (7 days) 13.02 - 29 g/L	
Toxicity to aquatic algae and cyanobacteria	EC50 (4 days) 19 - 19.1 g/L	
	NOEC (14 days) 5.3 - 15 g/L	
Toxicity to microorganisms	NOEC (18 h) 20 g/L	
<b>• 12.2 Persistence and degradability:</b>		
56-81-5	Glycerin	Readily biodegradable in water
532-32-1	Sodium benzoate	Readily biodegradable in water
57-55-6	Propylene glycol	Readily biodegradable in water
<b>• 12.3 Bio-accumulative potential:</b>		
56-81-5	Glycerin	Log Pow= -1.75 at 25 °C and pH 7.4
532-32-1	Sodium benzoate	Log Pow =1.88
57-55-6	Propylene glycol	Log Pow= -1.07 at 20.5 °C and pH 6.2 - 6.4
<b>• 12.4 Mobility in soil:</b>		
56-81-5	Glycerin	Henrys law constant= 0.001 Pa m <sup>3</sup> /mol at 25 °C and 101.325 kPa
<b>• 12.5 Results of PBT and vPvB assessment:</b>		
This mixture does not contain any substances (≥0.1%) that are assessed to be a PBT or a vPvB.		
<b>• 12.6 Endocrine disrupting properties:</b>		
None of the ingredients (>=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.		
<b>• 12.7 Other adverse effects:</b>		
No known other adverse effects.		
<b>• 12.8 Additional ecological information</b>		
<b>• General notes:</b>		
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 regulation.

**• 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**

**ADR/RID/ADN, IMO/IMDG, IATA**

Not regulated as dangerous transport goods, not applicable

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<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b> ADR/RID/ADN, IMO/IMDG, IATA</li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class (es)</b> ADR/RID/ADN, IMO/IMDG, IATA</li> <li>Class</li> <li>Label</li> </ul>	Void Void
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b> ADR/RID/ADN, IMO/IMDG, IATA</li> </ul>	Void
<ul style="list-style-type: none"> <li>· <b>14.5 Marine pollution</b></li> </ul>	No
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b> <ul style="list-style-type: none"> <li>· <b>Danger code (Kemler)</b></li> <li>· <b>EMS number</b></li> </ul> </li> </ul>	Void Void Void
<ul style="list-style-type: none"> <li>· <b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b></li> </ul>	Void

### 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
- **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

Acute Tox. 4: Acute toxicity, hazard category 4

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

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

Aquatic Chronic 4: Long-term (chronic) aquatic hazard, hazard category 4

### · 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):

H302 Harmful if swallowed

H318 Causes serious eye damage

H319 Causes serious eye irritation

H413 May cause long lasting harmful effects to aquatic life

### · 16.6 Training advice:

Workers must be educated and trained so they can read SDS and understand the hazards, and know how to work safely

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with hazardous products.

· **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