SAFETY DATA SHEET

This safety data sheet complies with the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Issuing Date 02-Jan-2022 **Revision Date** 02-Jan-2022 **Revision Number 3.02**

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product Code(s)	SDS-06129 EN E
Product Name	TangoGray™, FLX950
PN (Part Number)	OBJ-03210, OBJ-04069
Denmark **PR No**	N/A
Chemical name	Acrylic formulation
Pure substance/mixture	Mixture

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

Recommended Use	Printing inks.
Uses advised against	This product is a cartridge containing ink. Under normal conditions of use, the substance is released from a cartridge only inside an appropriate printing system, and therefore, exposure is limited

1.3. Details of the supplier of the safety data sheet

Importer
Stratasys EMEA Regional Office
Airport Boulevard B 120
77836 Rheinmünster, Germany
Phone: +49-7229-7772-0

For further information, please contact
E-mail address info@Stratasys.com

1.4. Emergency telephone number

Emergency Telephone	+44 1235 239670 - Europe - Multi lingual response
Austria	Poison Information Centre (AT): +43-(0)1-406 43 43
Belgium	Poison Centre (BE): +32 70 245 245
Bulgaria	Poison Center (BG): +359 (0)2 9154 233
Croatia	Poison Control (CR): +385 1 2348 342
Czech Republic	Poison Control (CS): +420 224 919 293, +420 224 915 402
Denmark	Poison Control Hotline (DK): +45 82 12 12 12
Estonia	Poison Control (ET): 112, 16662, +372 7943 794
Finland	Poison Information Centre (FI): +358 9 471 977
France	ORFILA (FR): + 01 45 42 59 59
Greece	Poison Information Center (EL): +30 210 779 3777 Emergency Poison Centre telephone number, Aglaia Kyriakou Children's Hospital
Hungary	Poison Information Service (HU): +36 (06) 80 201-199

Ireland	+353 (0)1 809 2166 – public poisons information line
Italy	Poison Centre, Milan (IT): +39 02 6610 1029
Latvia	State Fire and Rescue Service, phone number: 112. State Toxicology Center, Poisoning and Drug Information Center, Hipokrāta 2, Riga, Latvia, LV-1079, phone number +371 67042473
Lithuania	Poison Information Office (LT): 112, +370 (8)5 236 20 52, +370 (8)6 875 33 78
Netherlands	National Poisons Information Center (NVIC): 030-274 8888 (Only for the purpose of informing medical personnel in cases of acute intoxications)
Norway	Poisons Information (NO): + 47 22 591300
Portugal	Poison Information Centre (PT): +351 808 250 250
Slovakia	Poison Information Service (SK): +421 911 166066
Spain	Poison Information Service (ES): +34 91 562 04 20
Sweden	112 – ask for Poisons Information
Switzerland	Tox Info Suisse: 145, +41 44 251 51 51

Section 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1A - (H317)
Specific target organ toxicity (single exposure)	Category 3 - (H335)
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 1 - (H410)

2.2. Label elements

Contains Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, 2-[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), 2-Hydroxy-3-phenoxypropyl acrylate, Acrylic acid, 2-hydroxyethyl ester

Signal word

Danger

Hazard statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H410 - Very toxic to aquatic life with long lasting effects

Precautionary Statements

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P271 - Use only outdoors or in a well-ventilated area
P273 - Avoid release to the environment
P280 - Wear protective gloves and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage
P405 - Store locked up
P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

3.2 Mixtures

Chemical name	EC No	CAS No	Index no.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Proprietary	No information available	-	-	10-30	Skin Irrit. 2 (H315) Eye Irrit.2 (H319) Skin Sens. 1B (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	01-2119957862-25-XXXX
Proprietary	No information available	-	-	10-30	Acute Tox. 3 (H331) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	01-2120751208-56-XXXX
Proprietary	Not Listed	-	-	10-30	Skin Sens. 1 (H317)	01-2119490020-53-XXXX
Proprietary	No information available	-	-	10-30	Skin Sens. 1B (H317) Eye Dam. 1 (H318) Aquatic Chronic 2 (H411)	01-2120735823-52-XXXX
Proprietary	No information available	-	-	0.3-1	Repr. 2 (H361f) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	No data available
Titanium dioxide	236-675-5	13463-67-7	-	0.1-0.3	Not classified	No data available
camphene	201-234-8	79-92-5	-	0.1-0.3	Flam. Sol. 2 (H228) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Acrylic acid, 2-hydroxyethyl ester	212-454-9	818-61-1	607-072-00-8	0.1-0.3	Acute Tox. 4 (H302) Acute Tox. 2 (H310) Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)	01-2119459345-34-XXXX
Benzyl Alcohol	202-859-9	100-51-6	-	0.1-0.3	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	No data available
Proprietary	Not Listed	-	-	0.1-0.3	Skin Sens. 1B (H317) Eye Irrit. 2 (H319)	No data available
Acrylic acid	201-177-9	79-10-7	607-061-00-8	0.1-0.3	Flam. Liq. 3 (H226) Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Corr. 1A (H314) Eye Dam. 1 (H318) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 2 (H411)	No data available
Glycerol, propoxylated, esters with acrylic acid	500-114-5	52408-84-1	-	0.1-0.3	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	No data available
Proprietary	No information available	-	-	0.1-0.3	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373)	01-0000016491-73-XXXX
1,7,7-Trimethyltricyclo[2.2.1.02,6]heptane	208-083-7	508-32-7	-	0.1-0.3	Eye Irrit.2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
Limonene	205-341-0	138-86-3	-	<0.1	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Skin Irrit. 2 (H315) Skin Sens. 1B (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available
2-methoxy-1-methylethyl acetate	203-603-9	108-65-6	-	<0.1	Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
Aluminium Hydroxide	244-492-7	21645-51-2	-	<0.1	Not classified	No data available

4-Methoxyphenol/ Mequinol	205-769-8	150-76-5	-	<0.1	Acute Tox. 4 (H302) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Repr. 2 (H361d) Aquatic Chronic 3 (H412)	No data available
Isopentyl Acetate	204-662-3	123-92-2	-	<0.1	Flam. Liq. 3 (H226)	No data available
3,7-Dimethyl-2,6-Octadienal	226-394-6	5392-40-5	-	<0.1	Skin Sens. 1B (H317) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)	No data available
Xylene, mixture of isomers	215-535-7	1330-20-7	601-022-00-9	<0.1	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335) STOT RE 2 (H373) Asp. Tox. 1 (H304)	No data available
n-butyl acetate	204-658-1	123-86-4	-	<0.1	Flam. Liq. 3 (H226) STOT SE 3 (H336)	No data available
ethylbenzene	202-849-4	100-41-4	-	<0.1	Flam. Liq. 2 (H225) Acute Tox. 4 (H332) STOT RE 2 (H373) Asp. Tox. 1 (H304)	No data available
Phosphoric acid	231-633-2	7664-38-2	-	<0.1	Skin Corr. 1B (H314) Eye Dam. 1 (H318)	No data available
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	204-881-4	128-37-0	-	<0.1	Acute Tox. 4 H302 Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	No data available

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

Section 4: FIRST AID MEASURES

4.1. Description of first aid measures

General advice Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur. IF exposed or concerned: Get medical advice/attention. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.

Eye contact Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area.

Skin contact Wash off immediately with soap and plenty of water for at least 15 minutes. May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8). Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

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

Symptoms Burning sensation. Itching. Rashes. Hives. Coughing and/ or wheezing. Difficulty in breathing.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

Section 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing agent suitable for type of surrounding fire
Class B fires: Use carbon dioxide (CO2), regular dry chemical (sodium bicarbonate), regular foam (Aqueous Film Forming Foam-AFFF), or water spray to cool containers

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitiser. May cause sensitisation by skin contact.

5.3. Advice for firefighters

Special protective equipment for fire-fighters Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Keep out of drains, sewers, ditches and waterways. Inhalation is a health risk. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Avoid breathing vapours or mists.

Occupational Spill Release Intact cartridges do not pose a leak or spill hazard. Damaged cartridges may leak uncured ink. Stop leak if you can do it without risk Use water spray to reduce vapours or divert vapour cloud drift Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container Keep out of drains, sewers, ditches and waterways

Other Information Refer to protective measures listed in Sections 7 and 8.

For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions Prevent further leakage or spillage if safe to do so.

6.3. Methods and material for containment and cleaning up

Methods for containment Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

Section 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling Avoid breathing vapours or mists. Wash thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Do not eat, drink or smoke when using this product.

General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Store in a cool, dry area away from potential sources of heat, open flames, sunlight or other chemicals. Store in a cool, well ventilated area. Store in accordance with local regulations. Keep container tightly closed. Store between 15 °C and 27 °C. Shipment temperature (up to 5 weeks) is -20 °C to 50 °C. Store in a combustible storage area away from heat and open flame.

Hints on joint storage

Storage class LGK10 - Combustible liquids unless storage class 3

7.3. Specific end use(s)

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure disclaimer Personal protection measures are only needed if cartridge is damaged punctured causing spillage of material.

8.1. Control parameters

Exposure Limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³	TWA: 10 mg/m³	TWA: 10 mg/m³	TWA: 1.25 mg/m³ TWA: 10 mg/m³
camphene 79-92-5	-	-	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-
Benzyl Alcohol 100-51-6	-	-	-	-	TWA: 5 ppm TWA: 22 mg/m³ H*
Acrylic acid 79-10-7	-	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	TWA: 2 ppm TWA: 6 mg/m³ STEL: 10 ppm STEL: 30 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³ vía dérmica*	TWA: 10 ppm TWA: 30 mg/m³
1,7,7-Trimethyltricyclo[2.2.1.02,6]heptane 508-32-7	-	-	TWA: 1000 mg/m³ STEL: 1500 mg/m³	-	-
Limonene	-	-	TWA: 1000 mg/m³	-	-

138-86-3			STEL: 1500 mg/m³		
2-methoxy-1-methylethyl acetate 108-65-6	TWA 50 ppm TWA 275 mg/m³ STEL 100 ppm STEL 550 mg/m³ *	TWA: 50 ppm TWA: 274 mg/m³ STEL: 100 ppm STEL: 548 mg/m³ Sk*	TWA: 50 ppm TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ *	TWA: 50 ppm TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ vía dérmica*	TWA: 50 ppm TWA: 270 mg/m³
Aluminium Hydroxide 21645-51-2	-	TWA: 10 mg/m³ TWA: 4 mg/m³	-	-	TWA: 1.25 mg/m³ TWA: 10 mg/m³
4-Methoxyphenol/ Mequinol 150-76-5	-	-	TWA: 5 mg/m³	TWA: 5 mg/m³	-
Isopentyl Acetate 123-92-2	TWA 50 ppm TWA 270 mg/m³ STEL 100 ppm STEL 540 mg/m³	TWA: 50 ppm TWA: 270 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 540 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 540 mg/m³	TWA: 50 ppm TWA: 270 mg/m³
3,7-Dimethyl-2,6-Octadienal 5392-40-5	-	-	-	TWA: 5 ppm vía dérmica*	-
Xylene, mixture of isomers 1330-20-7	TWA 50 ppm TWA 221 mg/m³ STEL 100 ppm STEL 442 mg/m³ *	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 441 mg/m³ Sk*	TWA: 50 ppm TWA: 221 mg/m³ TWA: 1000 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ STEL: 1500 mg/m³ *	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ vía dérmica*	TWA: 50 ppm TWA: 220 mg/m³ H*
n-butyl acetate 123-86-4	-	TWA: 150 ppm TWA: 724 mg/m³ STEL: 200 ppm STEL: 966 mg/m³	TWA: 150 ppm TWA: 710 mg/m³ STEL: 200 ppm STEL: 940 mg/m³	TWA: 150 ppm TWA: 724 mg/m³ STEL: 200 ppm STEL: 965 mg/m³	TWA: 62 ppm TWA: 300 mg/m³
ethylbenzene 100-41-4	TWA 100 ppm TWA 442 mg/m³ STEL 200 ppm STEL 884 mg/m³ *	TWA: 100 ppm TWA: 441 mg/m³ STEL: 125 ppm STEL: 552 mg/m³ Sk*	TWA: 20 ppm TWA: 88.4 mg/m³ TWA: 1000 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ STEL: 1500 mg/m³ *	TWA: 100 ppm TWA: 441 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ vía dérmica*	TWA: 20 ppm TWA: 88 mg/m³ H*
Phosphoric acid 7664-38-2	TWA 1 mg/m³ STEL 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 0.2 ppm TWA: 1 mg/m³ STEL: 0.5 ppm STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 2 mg/m³
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	-	TWA: 10 mg/m³ STEL: 30 mg/m³	TWA: 10 mg/m³	TWA: 10 mg/m³	TWA: 10 mg/m³
Chemical name	Italy	Portugal	Netherlands	Finland	Denmark
Titanium dioxide 13463-67-7	-	TWA: 10 mg/m³	-	-	TWA: 6 mg/m³
Acrylic acid, 2-hydroxyethyl ester 818-61-1	-	-	-	-	TWA: 1 ppm TWA: 5 mg/m³ H*
Benzyl Alcohol 100-51-6	-	-	-	TWA: 10 ppm TWA: 45 mg/m³	-
Acrylic acid 79-10-7	TWA: 29 ppm TWA: 10 mg/m³ STEL: 59 ppm STEL: 20 mg/m³ pelle*	TWA: 10 ppm TWA: 29 mg/m³ STEL: 59 mg/m³ STEL: 20 ppm P*	TWA: 29 mg/m³ STEL: 59 mg/m³	TWA: 2 ppm TWA: 6 mg/m³ Ceiling: 15 ppm Ceiling: 45 mg/m³	TWA: 2 ppm TWA: 5.9 mg/m³ H*
2-methoxy-1-methylethyl acetate 108-65-6	TWA: 50 ppm TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ pelle*	TWA: 50 ppm TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ P*	TWA: 550 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ iho*	TWA: 50 ppm TWA: 275 mg/m³ H*

4-Methoxyphenol/ Mequinol 150-76-5	-	TWA: 5 mg/m³	-	-	TWA: 5 mg/m³
Isopentyl Acetate 123-92-2	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 540 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 540 mg/m³	STEL: 530 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 100 ppm STEL: 540 mg/m³	TWA: 50 ppm TWA: 271 mg/m³
3,7-Dimethyl-2,6-Octadienal 5392-40-5	-	TWA: 5 ppm P*	-	-	-
Xylene, mixture of isomers 1330-20-7	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ pelle*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ P*	TWA: 210 mg/m³ STEL: 442 mg/m³ H*	TWA: 50 ppm TWA: 220 mg/m³ STEL: 100 ppm STEL: 440 mg/m³ iho*	TWA: 25 ppm TWA: 109 mg/m³ H*
n-butyl acetate 123-86-4	-	TWA: 50 ppm TWA: 241 mg/m³ STEL: 150 ppm STEL: 723 mg/m³	-	TWA: 50 ppm TWA: 240 mg/m³ STEL: 150 ppm STEL: 725 mg/m³	TWA: 150 ppm TWA: 710 mg/m³ TWA: 50 ppm TWA: 150 mg/m³
ethylbenzene 100-41-4	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ pelle*	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ P*	TWA: 215 mg/m³ STEL: 430 mg/m³ H*	TWA: 50 ppm TWA: 220 mg/m³ STEL: 200 ppm STEL: 880 mg/m³ iho*	TWA: 50 ppm TWA: 217 mg/m³ H*
Phosphoric acid 7664-38-2	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³	TWA: 1 mg/m³
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	-	TWA: 2 mg/m³	-	TWA: 10 mg/m³ STEL: 20 mg/m³	TWA: 10 mg/m³
Chemical name	Austria	Switzerland	Poland	Norway	Ireland
Titanium dioxide 13463-67-7	TWA: 5 mg/m³ STEL 10 mg/m³	TWA: 3 mg/m³	STEL: 30 mg/m³ TWA: 10 mg/m³	TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³
Benzyl Alcohol 100-51-6	-	TWA: 5 ppm TWA: 22 mg/m³ H*	TWA: 240 mg/m³	-	-
Acrylic acid 79-10-7	TWA: 10 ppm TWA: 29 mg/m³ STEL 20 ppm STEL 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	STEL: 29.5 mg/m³ TWA: 10 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³ STEL: 20 ppm STEL: 59 mg/m³
Limonene 138-86-3	-	-	-	TWA: 25 ppm TWA: 140 mg/m³ TWA: 40 ppm TWA: 275 mg/m³ STEL: 37.5 ppm STEL: 175 mg/m³ STEL: 60 ppm STEL: 343.75 mg/m³	-
2-methoxy-1-methylethyl acetate 108-65-6	TWA: 50 ppm TWA: 275 mg/m³ STEL 100 ppm STEL 550 mg/m³ H*	TWA: 50 ppm TWA: 275 mg/m³ STEL: 50 ppm STEL: 275 mg/m³	STEL: 520 mg/m³ TWA: 260 mg/m³	TWA: 50 ppm TWA: 270 mg/m³ STEL: 75 ppm STEL: 337.5 mg/m³ H*	TWA: 50 ppm TWA: 275 mg/m³ STEL: 100 ppm STEL: 550 mg/m³ Sk*
Aluminium Hydroxide 21645-51-2	TWA: 5 mg/m³ STEL 10 mg/m³	TWA: 3 mg/m³	TWA: 2.5 mg/m³ TWA: 1.2 mg/m³	-	TWA: 10 mg/m³ TWA: 4 mg/m³ STEL: 30 mg/m³ STEL: 12 mg/m³
4-Methoxyphenol/ Mequinol	TWA: 5 mg/m³ STEL 10 mg/m³	-	TWA: 5 mg/m³	TWA: 5 mg/m³ STEL: 10 mg/m³	TWA: 5 mg/m³ STEL: 15 mg/m³

150-76-5					
Isopentyl Acetate 123-92-2	TWA: 50 ppm TWA: 270 mg/m³ STEL 100 ppm STEL 540 mg/m³	TWA: 50 ppm TWA: 260 mg/m³ STEL: 50 ppm STEL: 260 mg/m³	STEL: 500 mg/m³ TWA: 250 mg/m³	TWA: 50 ppm TWA: 260 mg/m³ STEL: 75 ppm STEL: 325 mg/m³	TWA: 260 mg/m³ TWA: 50 ppm STEL: 520 mg/m³ STEL: 100 ppm
3,7-Dimethyl-2,6-Octadienal 5392-40-5	-	-	STEL: 54 mg/m³ TWA: 27 mg/m³	-	TWA: 5 ppm STEL: 15 ppm
Xylene, mixture of isomers 1330-20-7	TWA: 50 ppm TWA: 221 mg/m³ STEL 100 ppm STEL 442 mg/m³	TWA: 100 ppm TWA: 435 mg/m³ STEL: 200 ppm STEL: 870 mg/m³ H*	STEL: 200 mg/m³ TWA: 100 mg/m³	TWA: 25 ppm TWA: 108 mg/m³ STEL: 37.5 ppm STEL: 135 mg/m³ H*	TWA: 50 ppm TWA: 221 mg/m³ STEL: 100 ppm STEL: 442 mg/m³ Sk*
n-butyl acetate 123-86-4	TWA: 100 ppm TWA: 480 mg/m³ STEL 100 ppm STEL 480 mg/m³ Ceiling 100 ppm Ceiling 480 mg/m³	TWA: 50 ppm TWA: 240 mg/m³ STEL: 150 ppm STEL: 720 mg/m³	STEL: 720 mg/m³ TWA: 240 mg/m³	TWA: 75 ppm TWA: 355 mg/m³ STEL: 112.5 ppm STEL: 443.75 mg/m³	TWA: 150 ppm TWA: 710 mg/m³ STEL: 200 ppm STEL: 950 mg/m³
ethylbenzene 100-41-4	TWA: 100 ppm TWA: 440 mg/m³ STEL 200 ppm STEL 880 mg/m³ H*	TWA: 50 ppm TWA: 220 mg/m³ STEL: 50 ppm STEL: 220 mg/m³ H*	STEL: 400 mg/m³ TWA: 200 mg/m³	TWA: 5 ppm TWA: 20 mg/m³ STEL: 10 ppm STEL: 30 mg/m³ H*	TWA: 100 ppm TWA: 442 mg/m³ STEL: 200 ppm STEL: 884 mg/m³ Sk*
Phosphoric acid 7664-38-2	TWA: 1 mg/m³ STEL 2 mg/m³	TWA: 2 mg/m³ STEL: 4 mg/m³	STEL: 2 mg/m³ TWA: 1 mg/m³	TWA: 1 mg/m³ STEL: 3 mg/m³	TWA: 1 mg/m³ STEL: 2 mg/m³
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	TWA: 10 mg/m³	TWA: 10 mg/m³ STEL: 40 mg/m³	-	-	TWA: 2 mg/m³ STEL: 6 mg/m³

Chemical name	Sweden	Slovakia			
Titanium dioxide 13463-67-7	NGV: 5 mg/m³	TWA: 5 mg/m³	-	-	-
Acrylic acid, 2-hydroxyethyl ester 818-61-1	NGV: 1 ppm NGV: 5 mg/m³ Sensitizer * Vägledande KGV: 2 ppm Vägledande KGV: 10 mg/m³		-	-	-
Acrylic acid 79-10-7	NGV: 10 ppm NGV: 29 mg/m³ Bindande KGV: 20 ppm Bindande KGV: 59 mg/m³	TWA: 10 ppm TWA: 29 mg/m³	-	-	-
Limonene 138-86-3	NGV: 25 ppm NGV: 150 mg/m³ Sensitizer Vägledande KGV: 50 ppm Vägledande KGV: 300 mg/m³		-	-	-
2-methoxy-1-methylethyl acetate 108-65-6	NGV: 50 ppm NGV: 275 mg/m³ * Bindande KGV: 100 ppm Bindande KGV: 550 mg/m³	TWA: 50 ppm TWA: 275 mg/m³ K*	-	-	-

Chemical name	Sweden	Slovakia			
Aluminium Hydroxide 21645-51-2	-	TWA: 1.5 mg/m³ TWA: 4 mg/m³ TWA: 6 mg/m³	-	-	-
Isopentyl Acetate 123-92-2	NGV: 50 ppm NGV: 270 mg/m³ Bindande KGV: 100 ppm Bindande KGV: 540 mg/m³	TWA: 50 ppm TWA: 270 mg/m³	-	-	-
Xylene, mixture of isomers 1330-20-7	NGV: 50 ppm NGV: 221 mg/m³ * Bindande KGV: 100 ppm Bindande KGV: 442 mg/m³	TWA: 50 ppm TWA: 221 mg/m³ K*	-	-	-
n-butyl acetate 123-86-4	NGV: 50 ppm NGV: 241 mg/m³ Bindande KGV: 150 ppm Bindande KGV: 723 mg/m³	TWA: 100 ppm TWA: 500 mg/m³	-	-	-
ethylbenzene 100-41-4	NGV: 50 ppm NGV: 220 mg/m³ * Bindande KGV: 200 ppm Bindande KGV: 884 mg/m³	TWA: 100 ppm TWA: 442 mg/m³ K*	-	-	-
Phosphoric acid 7664-38-2	NGV: 1 mg/m³ Bindande KGV: 2 mg/m³	TWA: 1 mg/m³	-	-	-

Biological occupational exposure limits

Chemical name	European Union	United Kingdom	France	Spain	Germany
Xylene, mixture of isomers 1330-20-7	-	650	-	1	2000 mg/L
ethylbenzene 100-41-4	-	-	-	700	250 mg/g Creatinine
Chemical name	**Italy**	**Portugal**	**Netherlands**	**Finland**	**Denmark**
Xylene, mixture of isomers 1330-20-7	-	-	-	5.0	
ethylbenzene 100-41-4	-	-	-	5.2	
Chemical name	**Austria**	**Switzerland**	**Poland**	**Norway**	**Ireland**
Aluminium Hydroxide 21645-51-2	-	50	-	-	-
Xylene, mixture of isomers 1330-20-7	-	2	-	-	-
ethylbenzene 100-41-4	-	600	-	-	-

Derived No Effect Level (DNEL) No information available.

Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Personal protective equipment

Eye/face protection	Tight sealing safety goggles.
Hand Protection	Wear suitable gloves. Impervious gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Ink cartridge
Odour	Characteristic
Colour	grey
Odour threshold	No information available

Property	Values	Remarks • Method
pH	N/A	No information available
Melting point / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash point	115 °C	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	No data available	
Lower flammability limit	No data available	
Vapour pressure	No data available	None known
Vapour density	No data available	None known
Relative density	1.09	g/cm3
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Liquid Density	No information available
Bulk density	No information available
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity Heating may cause a fire.

10.2. Chemical stability

Stability Decomposes on exposure to light. Unstable if heated.

Explosion data
Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Uncured ink will polymerize on exposure to light.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to heat and light.

10.5. Incompatible materials

Incompatible materials Not applicable under normal conditions of use and storage.

10.6. Hazardous decomposition products

Hazardous decomposition products Thermal Decomposition Products. Combustion: oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation May cause irritation of respiratory tract. (based on components). Harmful by inhalation.

Eye contact Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes. (based on components).

Skin contact May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.

Ingestion Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. (based on components).

Information on toxicological effects

Symptoms Redness. Burning. May cause blindness. Itching. Rashes. Hives. May cause redness and tearing of the eyes. Coughing and/ or wheezing.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document mg/kg

ATEmix (dermal) 20,689.20 mg/kg
ATEmix (inhalation-dust/mist) 2.08 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary	= 4890 mg/kg = 4890 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
Proprietary	-	-	0.5 - 1 mg/L (Rat) 4 h
Proprietary	>2000 mg/kg (Rat)	>2000 mg/kg	-
Proprietary	(Rat) LD50 = 1,590 - 3,910 mg/kg	(Rabbit) LD50 = > 2,000 mg/kg	(Rat) 1 h LC0 = 6.7 mg/l
Proprietary	> 5,000 mg/kg (Rat) (OECD Guideline 401)	> 2,000 mg/kg (Rat) (OECD Guideline 402)	-
Titanium dioxide	> 10000 mg/kg > 10000 mg/kg (Rat)	-	= 5.09 mg/L (Rat) 4 h
camphene	> 5 g/kg > 5 g/kg (Rat)	> 2500 mg/kg (Rabbit)	-
Acrylic acid, 2-hydroxyethyl ester	= 548 mg/kg = 548 mg/kg (Rat)	> 1000 mg/kg (Rat)	-
Benzyl Alcohol	= 1230 mg/kg = 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m^3 (Rat) 4 h
Proprietary	-	> 13200 mg/kg (Rabbit)	-
Acrylic acid	= 193 mg/kg = 193 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 11.1 mg/L (Rat) 1 h = 3.6 mg/L (Rat) 4 h
Glycerol, propoxylated, esters with acrylic acid	-	> 2000 mg/kg (Rabbit)	-
Proprietary	= 588 mg/kg (rat)	> 2000 mg/kg (rat)	= 5.28 mg/l (rat)
Limonene	= 5300 mg/kg = 5300 mg/kg (Rat)	-	-
2-methoxy-1-methylethyl acetate	= 8532 mg/kg = 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 16000 mg/m^3 (Rat) 6 h
Aluminium Hydroxide	> 5000 mg/kg > 5000 mg/kg (Rat)	-	-
4-Methoxyphenol/ Mequinol	= 1600 mg/kg = 1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
3,7-Dimethyl-2,6-Octadienal	= 4960 mg/kg = 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	-
Xylene, mixture of isomers	= 3500 mg/kg = 3500 mg/kg (Rat)	> 4350 mg/kg (Rabbit)	= 29.08 mg/L (Rat) 4 h
n-butyl acetate	= 10768 mg/kg = 10768 mg/kg (Rat)	> 17600 mg/kg (Rabbit)	= 0.74 mg/L (Rat) 4 h
ethylbenzene	= 3500 mg/kg = 3500 mg/kg (Rat)	= 15400 mg/kg (Rabbit)	= 17.4 mg/L (Rat) 4 h
Phosphoric acid	= 1530 mg/kg = 1530 mg/kg (Rat)	= 2740 mg/kg (Rabbit)	> 850 mg/m^3 (Rat) 1 h
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	> 2930 mg/kg > 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Classification based on data available for ingredients. Irritating to skin.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

Respiratory or skin sensitisation May cause sensitisation by skin contact. Classification based on data available for ingredients.

Germ cell mutagenicity No information available.

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	European Union
Titanium dioxide	Carc. 2

Reproductive toxicity

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Proprietary	Repr. 2

STOT - single exposure Classification based on data available for ingredients.

STOT - repeated exposure No information available.

Aspiration hazard No information available.

Section 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects

Unknown aquatic toxicity Contains 62.77084 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Proprietary	1.98 mg/l Fresh water	0.704 mg/l Fresh water	-	0.524 mg/l Fresh water
Proprietary	Pseudokirchneriella subcapitata (green algae) 96 h EC50 = 0.17 mg/l	Oncorhynchus mykiss (rainbow trout) 96 h LC50 = 27 mg/l	-	Daphnia magna (Water flea) 48 h EC50 = 95 mg/l
Proprietary	> 2.01 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)	6.53 mg/l, Oryzias latipes (JIS K 0102-71, semistatic)	-	3.53 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)
camphene	1000: 72 h Desmodesmus subspicatus mg/L EC50	0.72: 96 h Brachydanio rerio mg/L LC50 flow-through 150: 96 h Brachydanio rerio mg/L LC50 static	-	22: 48 h Daphnia magna mg/L EC50
Acrylic acid, 2-hydroxyethyl ester	-	4.8: 96 h Pimephales promelas mg/L LC50 flow-through	-	0.78: 48 h Daphnia magna mg/L EC50
Benzyl Alcohol	-	10: 96 h Lepomis macrochirus mg/L LC50 static 460: 96 h Pimephales promelas mg/L LC50 static	-	23: 48 h water flea mg/L EC50
Proprietary	-	1.95: 96 h Danio rerio mg/L LC50 static	-	-
Acrylic acid	0.04: 72 h Desmodesmus subspicatus mg/L EC50 0.17: 96 h Pseudokirchneriella subcapitata mg/L EC50	222: 96 h Brachydanio rerio mg/L LC50 semi-static	-	95: 48 h Daphnia magna mg/L EC50
Glycerol, propoxylated, esters with acrylic acid	-	5.74: 96 h Danio rerio mg/L LC50 static	-	-
Proprietary	120 mg/l (algae)	-	-	120 mg/kg (daphnia)

2-methoxy-1-methylethyl acetate	-	161: 96 h Pimephales promelas mg/L LC50 static	-	500: 48 h Daphnia magna mg/L EC50
4-Methoxyphenol/ Mequinol	-	28.5: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 84.3: 96 h Pimephales promelas mg/L LC50 flow-through	-	-
3,7-Dimethyl-2,6-Octadienal	16: 72 h Desmodesmus subspicatus mg/L EC50 19: 96 h Desmodesmus subspicatus mg/L EC50	-	-	7: 48 h Daphnia magna mg/L EC50
Xylene, mixture of isomers	-	13.1 - 16.5: 96 h Lepomis macrochirus mg/L LC50 flow-through 13.5 - 17.3: 96 h Oncorhynchus mykiss mg/L LC50 2.661 - 4.093: 96 h Oncorhynchus mykiss mg/L LC50 static 23.53 - 29.97: 96 h Pimephales promelas mg/L LC50 static 30.26 - 40.75: 96 h Poecilia reticulata mg/L LC50 static 7.711 - 9.591: 96 h Lepomis macrochirus mg/L LC50 static 13.4: 96 h Pimephales promelas mg/L LC50 flow-through 19: 96 h Lepomis macrochirus mg/L LC50 780: 96 h Cyprinus carpio mg/L LC50 semi-static 780: 96 h Cyprinus carpio mg/L LC50	-	0.6: 48 h Gammarus lacustris mg/L LC50 3.82: 48 h water flea mg/L EC50
n-butyl acetate	674.7: 72 h Desmodesmus subspicatus mg/L EC50	17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Lepomis macrochirus mg/L LC50 static	-	-
ethylbenzene	1.7 - 7.6: 96 h Pseudokirchneriella subcapitata mg/L EC50 static 2.6 - 11.3: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 4.6: 72 h Pseudokirchneriella subcapitata mg/L EC50 438: 96 h Pseudokirchneriella subcapitata mg/L EC50	11.0 - 18.0: 96 h Oncorhynchus mykiss mg/L LC50 static 7.55 - 11: 96 h Pimephales promelas mg/L LC50 flow-through 9.1 - 15.6: 96 h Pimephales promelas mg/L LC50 static 32: 96 h Lepomis macrochirus mg/L LC50 static 4.2: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 9.6: 96 h Poecilia reticulata mg/L LC50 static	-	1.8 - 2.4: 48 h Daphnia magna mg/L EC50
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	6: 72 h Pseudokirchneriella subcapitata mg/L EC50 0.42: 72 h Desmodesmus subspicatus mg/L EC50	-	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
Acrylic acid, 2-hydroxyethyl ester	0.21
Benzyl Alcohol	1.1
Acrylic acid	0.46
2-methoxy-1-methylethyl acetate	0.43
4-Methoxyphenol/ Mequinol	1.3
3,7-Dimethyl-2,6-Octadienal	2.76
Xylene, mixture of isomers	3.15
n-butyl acetate	1.81
ethylbenzene	3.2
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	4.17

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment No information available.

12.6. Other adverse effects

Other adverse effects No information available.

Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 08 03 12* Waste ink containing dangerous substances.

Section 14: TRANSPORT INFORMATION

Additional information The environmentally hazardous substance mark is not required when transported in sizes of ≤5L or ≤5kg
The marine pollutant mark is not required when transported in sizes of ≤5L or ≤5kg

IMDG

14.1 UN number or ID number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es) 9

14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III, Marine pollutant
14.5 Marine pollutant	This product contains a chemical which is listed as a severe marine pollutant according to IMDG/IMO
Environmental hazards	Yes
14.6 Special Provisions	274, 335, 969
EmS-No	F-A, S-F
14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code	No information available

RID

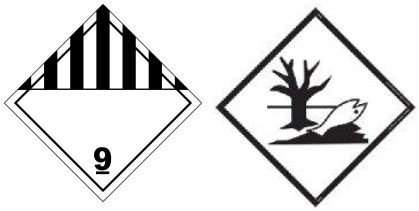
14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	274, 335, 375, 601
Classification code	M6

ADR

14.1 UN number or ID number	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9
Labels	9
14.4 Packing group	III
Description	3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	274, 335, 601, 375
Classification code	M6
Tunnel restriction code	(-)

IATA

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, camphene), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	A97, A158, A197
ERG Code	9L



Section 15: REGULATORY INFORMATION

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

National regulations

France
Occupational Illnesses (R-463-3, France)

Chemical name	French RG number	Title
Acrylic acid, 2-hydroxyethyl ester 818-61-1	RG 65	-
Benzyl Alcohol 100-51-6	RG 84	-
Limonene 138-86-3	RG 84	-
2-methoxy-1-methylethyl acetate 108-65-6	RG 84	-
4-Methoxyphenol/ Mequinol 150-76-5	RG 65	-
Isopentyl Acetate 123-92-2	RG 84	-
Xylene, mixture of isomers 1330-20-7	RG 4bis,RG 84	-
n-butyl acetate 123-86-4	RG 84	-
ethylbenzene 100-41-4	RG 84	-

Germany
Water hazard class (WGK) hazardous to water (WGK 2)

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorisations and/or restrictions on use:
This product contains one or more substance(s) subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
Proprietary -	75.	
Titanium dioxide - 13463-67-7	75.	
Acrylic acid, 2-hydroxyethyl ester - 818-61-1	75.	
Acrylic acid - 79-10-7	75.	
Proprietary -	75.	
Limonene - 138-86-3	75.	
4-Methoxyphenol/ Mequinol - 150-76-5	75.	
Triphenyl phosphite - 101-02-0	75.	
Low boiling point naphtha - unspecified - 64742-95-6	28. 29. 75.	
3,7-Dimethyl-2,6-Octadienal - 5392-40-5	75.	
Xylene, mixture of isomers - 1330-20-7	75.	
3,7-Dimethyl-, (E)-2,6-Octadien-1-Ol - 106-24-1	75.	
Phosphoric acid - 7664-38-2	75.	
3,7-Dimethyl-1,6-Octadien-3-Ol - 78-70-6	75.	
2-Propenoic acid, 1,2-ethanediyl ester - 2274-11-5	75.	
Octamethylcyclotetrasiloxane - 556-67-2	70. 75.	
decamethylcyclopentasiloxane - 541-02-6	70.	

Persistent Organic Pollutants
Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)
E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

15.2. Chemical safety assessment

Chemical Safety Report No information available

Section 16: OTHER INFORMATION

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3
H225 - Highly flammable liquid and vapour
H226 - Flammable liquid and vapour
H228 - Flammable solid
H302 - Harmful if swallowed
H304 - May be fatal if swallowed and enters airways
H310 - Fatal in contact with skin
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H331 - Toxic if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H336 - May cause drowsiness or dizziness
H361d - Suspected of damaging the unborn child
H361f - Suspected of damaging fertility
H373 - May cause damage to organs through prolonged or repeated exposure
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

Legend
SVHC: Substances of Very High Concern for Authorisation:

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - Vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method

STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration toxicity	Calculation method
Ozone	Calculation method

Revision Date 02-Jan-2022

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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End of Safety Data Sheet

Product Brand	POLYJET - INKS
Material State	Photopolymer
Material Family	Rubber like
Product name for SDS file	TangoGray_FLX950