

Issuing Date 27-Apr-2022

Revision Date 22-Dec-2020

Revision Number 1

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product Code(s)	SDS-06399 EN E
Product Name	Agilus30™ Magenta, FLX951
PN (Part Number)	OBJ-03086, OBJ-18917
Denmark PR No	N/A
Chemical name Pure substance/mixture	Acrylic formulation 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 2 - (H319)
Skin sensitisation	Category 1A - (H317)
Specific target organ toxicity — single exposure	Category 3 - (H335)
Category 3 Respiratory irritation	
Acute aquatic toxicity	Category 1 - (H400)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, 2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent <84%), Phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide



Signal word

Warning

Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects Contains Glycerol, propoxylated, esters with acrylic acid

Precautionary Statements - EU (§28, 1272/2008)

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

P391 - Collect spillage

P405 - Store locked up

P501 - Dispose of contents/ container to an approved waste disposal plant

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	M FACTORS	Specific concentration limit (SCL)	REACH registration number
Proprietary	No information available	-	30-50	Acute Tox. 3 (H331) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)		-	01-212075120 8-56-XXXX
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)		-	01-211995786 2-25-XXXX
Proprietary	No information available	-	10-30	Acute Tox. 4 (H332) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)		-	01-212075120 8-56-XXXX
Proprietary	No information available	-	0.3-1	Skin Sens. 1A (H317) Aquatic Chronic 4 (H413)		-	No data available
Glycerol, propoxylated, esters with acrylic acid	500-114-5	52408-84-1	0.3-1	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)		-	No data available
Acrylic acid, 2-hydroxyethyl ester	212-454-9	818-61-1	0.3-1	Acute Tox. 4 (H302) Acute Tox. 2		Skin Sens. 1::C>=0.2%	01-211945934 5-34-XXXX

				(H310) Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412)			
Stabilizer	-	-	0.1-0.3	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		-	No data available
2,6-Bis(1,1-Dimethyl- thyl)-4-Methyl-Phenol	204-881-4	128-37-0	0.1-0.3	Acute Tox. 4 H302 Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		-	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
1,7,7-Trimethyltricycl o[2.2.1.0 _{2,6}]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
Proprietary	No information available	-	<0.1	Flam. Liq. 3 (H226) STOT SE 3 (H336)		-	No data available
Methanol	200-659-6	67-56-1	<0.1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)		STOT SE 1 :: C>=10% STOT SE 2 :: 3%<=C<10%	No data available
Heptane	205-563-8	142-82-5	<0.1	Skin Irrit. 2		-	No data

				(H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225)			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

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

Acute Toxicity Estimate
No information available

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur. If symptoms persist, call a doctor. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	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. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. 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 Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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 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. Use extinguishing agent suitable for type of surrounding fire. Use extinguishing agent suitable for type of surrounding fire.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

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 and precautions for fire-fighters 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. 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. 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. Ensure adequate ventilation. Use personal protective equipment as required. 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 Following product recovery, flush area with water. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

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. Do not eat, drink or smoke when using this product. 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.

General hygiene considerations

See section 8 for more information. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

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.

Storage class

LGK10 - Combustible liquids unless storage class 3

7.3. Specific end use(s)

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	Austria	Belgium	Bulgaria	Croatia
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	-	TWA: 10 mg/m ³	-	STEL: 50 mg/m ³ TWA: 10 mg/m ³	TWA: 10 mg/m ³
Proprietary	TWA 50 ppm TWA 275 mg/m ³ STEL 100 ppm STEL 550 mg/m ³ *	TWA: 50 ppm TWA: 275 mg/m ³ STEL 100 ppm STEL 550 mg/m ³ H*	-	STEL: 100 ppm STEL: 550.0 mg/m ³ TWA: 50 ppm TWA: 275.0 mg/m ³ K*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ K*
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ *	TWA: 200 ppm TWA: 260 mg/m ³ STEL 800 ppm STEL 1040 mg/m ³ H*	-	TWA: 200 ppm TWA: 260.0 mg/m ³ K*	TWA: 200 ppm TWA: 260 mg/m ³ K*
Heptane 142-82-5	TWA 500 ppm TWA 2085 mg/m ³	TWA: 500 ppm TWA: 2000 mg/m ³	-	TWA: 1600 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³

		STEL 2000 ppm STEL 8000 mg/m ³			K*
4-Methoxyphenol/ Mequinol 150-76-5	-	TWA: 5 mg/m ³ STEL 10 mg/m ³	-	-	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Acrylic acid, 2-hydroxyethyl ester 818-61-1	-	-	TWA: 1 ppm TWA: 5 mg/m ³ H*	TWA: 1 ppm TWA: 5 mg/m ³ STEL: 2 ppm STEL: 10 mg/m ³ A*	-
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	-	-	TWA: 10 mg/m ³	-	TWA: 10 mg/m ³ STEL: 20 mg/m ³
Proprietary	-	-	TWA: 50 ppm TWA: 275 mg/m ³ H*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ A*	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ iho*
Methanol 67-56-1	-	-	TWA: 200 ppm TWA: 260 mg/m ³ H*	TWA: 200 ppm TWA: 250 mg/m ³ STEL: 250 ppm STEL: 350 mg/m ³ A*	TWA: 200 ppm TWA: 270 mg/m ³ STEL: 250 ppm STEL: 330 mg/m ³ iho*
Heptane 142-82-5	-	-	TWA: 200 ppm TWA: 820 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 300 ppm TWA: 1200 mg/m ³ STEL: 500 ppm STEL: 2100 mg/m ³
4-Methoxyphenol/ Mequinol 150-76-5	-	-	TWA: 5 mg/m ³	-	-
Chemical name	France	Germany	Germany MAK	Greece	Hungary
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol 128-37-0	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³ Ceiling / Peak: 40 mg/m ³	-	-
camphene 79-92-5	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
1,7,7-Trimethyltricyclo[2. 2.1.02,6]heptane 508-32-7	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Proprietary	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ *	TWA: 50 ppm TWA: 270 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ Ceiling / Peak: 50 ppm Ceiling / Peak: 270 mg/m ³	-	TWA: 275 mg/m ³ STEL: 550 mg/m ³
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 1000 ppm STEL: 1300 mg/m ³ *	TWA: 100 ppm TWA: 130 mg/m ³ H*	TWA: 100 ppm TWA: 130 mg/m ³ Ceiling / Peak: 200 ppm Ceiling / Peak: 260 mg/m ³ Skin	-	TWA: 260 mg/m ³ b*
Heptane 142-82-5	TWA: 400 ppm TWA: 1668 mg/m ³ TWA: 1000 mg/m ³ STEL: 500 ppm STEL: 2085 mg/m ³ STEL: 1500 mg/m ³	TWA: 500 ppm TWA: 2100 mg/m ³	TWA: 500 ppm TWA: 2100 mg/m ³ Ceiling / Peak: 500 ppm Ceiling / Peak: 2100 mg/m ³	-	TWA: 2000 mg/m ³
4-Methoxyphenol/ Mequinol	TWA: 5 mg/m ³	-	-	-	-

150-76-5					
Chemical name	Ireland	Italy	Italy REL	Latvia	Lithuania
Acrylic acid, 2-hydroxyethyl ester 818-61-1	-	-	-	TWA: 0.5 mg/m ³	-
2,6-Bis(1,1-Dimethylethyl))-4-Methyl-Phenol 128-37-0	TWA: 2 mg/m ³ STEL: 6 mg/m ³	-	-	-	-
Proprietary	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ Sk*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ pelle*	-	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ *	-
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³ Sk*	TWA: 200 ppm TWA: 260 mg/m ³ pelle*	-	TWA: 200 ppm TWA: 260 mg/m ³ *	-
Heptane 142-82-5	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³	-	TWA: 85 ppm TWA: 350 mg/m ³ TWA: 100 mg/m ³ STEL: 500 ppm STEL: 2085 mg/m ³ STEL: 300 mg/m ³	-
4-Methoxyphenol/ Mequinol 150-76-5	TWA: 5 mg/m ³ STEL: 15 mg/m ³	-	-	-	-
Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Proprietary	-	-	TWA: 550 mg/m ³	TWA: 50 ppm TWA: 270 mg/m ³ STEL: 75 ppm STEL: 337.5 mg/m ³ H*	STEL: 520 mg/m ³ TWA: 260 mg/m ³
Methanol 67-56-1	-	-	TWA: 133 mg/m ³ H*	TWA: 100 ppm TWA: 130 mg/m ³ STEL: 150 ppm STEL: 162.5 mg/m ³ H*	STEL: 300 mg/m ³ TWA: 100 mg/m ³
Heptane 142-82-5	-	-	TWA: 1200 mg/m ³ STEL: 1600 mg/m ³	TWA: 200 ppm TWA: 800 mg/m ³ TWA: 40 ppm TWA: 275 mg/m ³ STEL: 250 ppm STEL: 1000 mg/m ³ STEL: 60 ppm STEL: 343.75 mg/m ³	STEL: 2000 mg/m ³ TWA: 1200 mg/m ³
4-Methoxyphenol/ Mequinol 150-76-5	-	-	-	TWA: 5 mg/m ³ STEL: 10 mg/m ³	TWA: 5 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
2,6-Bis(1,1-Dimethylethyl))-4-Methyl-Phenol 128-37-0	TWA: 2 mg/m ³	-	-	TWA: 10 mg/m ³ STEL: STEL mg/m ³	TWA: 10 mg/m ³
Proprietary	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ P*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ P*	TWA: 50 ppm TWA: 275 mg/m ³ K*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ K*	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 100 ppm STEL: 550 mg/m ³ vía dérmica*
Methanol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³	TWA: 200 ppm TWA: 266 mg/m ³

	STEL: 250 ppm P*	P*	K*	STEL: STEL ppm STEL: STEL mg/m ³ K*	vía dérmica*
Heptane 142-82-5	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 500 ppm	TWA: 500 ppm TWA: 2085 mg/m ³ TWA: 700 mg/m ³ STEL: 1000 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³
4-Methoxyphenol/ Mequinol 150-76-5	TWA: 5 mg/m ³	-	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³
Chemical name	Sweden	Switzerland	United Kingdom		
Acrylic acid, 2-hydroxyethyl ester 818-61-1	NGV: 1 ppm NGV: 5 mg/m ³ Sensitizer * Vägledande KGV: 2 ppm Vägledande KGV: 10 mg/m ³	-	-		
2,6-Bis(1,1-Dimethylethyl)-4-Me thyl-Phenol 128-37-0	-	TWA: 10 mg/m ³ STEL: 40 mg/m ³	TWA: 10 mg/m ³ STEL: 30 mg/m ³		
Proprietary	NGV: 50 ppm NGV: 275 mg/m ³ * Bindande KGV: 100 ppm Bindande KGV: 550 mg/m ³	TWA: 50 ppm TWA: 275 mg/m ³ STEL: 50 ppm STEL: 275 mg/m ³	TWA: 50 ppm TWA: 274 mg/m ³ STEL: 100 ppm STEL: 548 mg/m ³ Sk*		
Methanol 67-56-1	NGV: 200 ppm NGV: 250 mg/m ³ * Vägledande KGV: 250 ppm Vägledande KGV: 350 mg/m ³	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 400 ppm STEL: 520 mg/m ³ H*	TWA: 200 ppm TWA: 266 mg/m ³ STEL: 250 ppm STEL: 333 mg/m ³ Sk*		
Heptane 142-82-5	NGV: 200 ppm NGV: 800 mg/m ³ NGV: 350 mg/m ³ Vägledande KGV: 300 ppm Vägledande KGV: 1200 mg/m ³	TWA: 400 ppm TWA: 1600 mg/m ³ STEL: 400 ppm STEL: 1600 mg/m ³	TWA: 500 ppm TWA: 2085 mg/m ³ STEL: 1500 ppm STEL: 6255 mg/m ³		

Biological occupational exposure limits

Chemical name	Denmark	Finland	France	Germany	Germany
Methanol 67-56-1	-	-	-	15 mg/L	15 mg/L
Chemical name	Slovenia	Spain	Switzerland	United Kingdom	
Methanol 67-56-1	-	15	30	-	

Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Eye protection must conform to standard EN 166.

Hand protection Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374.

Skin and body protection	Wear suitable protective clothing. Long sleeved clothing. Protective clothing conforms to Standard EN ISO 6529.
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	See section 8 for more information. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.
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
Colour	red
Odour	Characteristic.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Boiling point / boiling range	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	
Flash point	>= 100 - 250 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	N/A	
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	Insoluble in water	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	1.08	
Bulk density	No data available	
Liquid Density	No data available	
Vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity Heating may cause a fire. Contact with acids liberates toxic gas.

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. Excessive heat.**10.5. Incompatible materials****Incompatible materials** Not applicable under normal conditions of use and storage. Strong acids. Strong bases. Strong oxidising agents.**10.6. Hazardous decomposition products****Hazardous decomposition products** Thermal Decomposition Products. Combustion: oxides of carbon.**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation	May cause irritation of respiratory tract. Harmful by inhalation. (based on components).
Eye contact	Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. 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).

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes. Coughing and/ or wheezing.**Acute toxicity****Numerical measures of toxicity****The following values are calculated based on chapter 3.1 of the GHS document****ATEmix (dermal)** 11,145.00 mg/kg**ATEmix (inhalation-dust/mist)** 1.03 mg/l

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapour).

0 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Proprietary	-	-	0.5 - 1 mg/L (Rat) 4 h
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 > 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Glycerol, propoxylated, esters with acrylic acid	-	> 2000 mg/kg (Rabbit)	-
Acrylic acid, 2-hydroxyethyl ester	= 548 mg/kg = 548 mg/kg (Rat)	> 1000 mg/kg (Rat)	-
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	> 2930 mg/kg > 2930 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
camphene	> 5 g/kg > 5 g/kg (Rat)	> 2500 mg/kg (Rabbit)	-
Proprietary	= 8532 mg/kg = 8532 mg/kg (Rat)	> 5 g/kg (Rabbit)	= 16000 mg/m ³ (Rat) 6 h
Methanol	= 6200 mg/kg = 6200 mg/kg (Rat)	= 15840 mg/kg (Rabbit)	= 22500 ppm (Rat) 8 h
Heptane	-	= 3000 mg/kg (Rabbit)	> 73.5 mg/L (Rat) 4 h
4-Methoxyphenol/ Mequinol	= 1600 mg/kg = 1600 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

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. Causes skin irritation. May cause skin irritation.
Serious eye damage/eye irritation	Classification based on data available for ingredients. Causes serious eye irritation.
Respiratory or skin sensitisation	May cause an allergic skin reaction. Classification based on data available for ingredients.
Germ cell mutagenicity	No information available.
Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	May cause respiratory irritation. Classification based on data available for ingredients.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

11.2. Information on other hazards**11.2.1. Endocrine disrupting properties**

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Unknown aquatic toxicity Contains 72.17233 % 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	-	90: 96 h Danio rerio µg/L LC50 semi-static	-	-
Glycerol, propoxylated, esters with acrylic acid	-	5.74: 96 h Danio rerio mg/L LC50 static	-	-
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
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	-	-	-
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
Proprietary	-	161: 96 h Pimephales promelas mg/L LC50 static	-	500: 48 h Daphnia magna mg/L EC50
Methanol	-	13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static	-	-
Heptane	-	375.0: 96 h Cichlid fish mg/L LC50	-	-
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	-	-

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Acrylic acid, 2-hydroxyethyl ester	0.21
2,6-Bis(1,1-Dimethylethyl)-4-Methyl-Phenol	4.17
Proprietary	0.43
Methanol	-0.77
Heptane	4.66
4-Methoxyphenol/ Mequinol	1.3

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. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. 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

IATA

14.1 UN number or ID number UN3082
14.2 UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, Acrylic acid, 2-hydroxyethyl ester)
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, Acrylic acid, 2-hydroxyethyl ester), 9, III
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions A97, A158, A197

IMDG

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, Acrylic acid, 2-hydroxyethyl ester)
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, Acrylic acid, 2-hydroxyethyl ester), 9, III, Marine pollutant
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274, 335, 969
EmS-No	F-A, S-F
14.7 Maritime transport in bulk according to IMO instruments	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. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, Acrylic acid, 2-hydroxyethyl ester)
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, Acrylic acid, 2-hydroxyethyl ester), 9, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
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. (Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate, Acrylic acid, 2-hydroxyethyl ester)
14.3 Transport hazard class(es)	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, Acrylic acid, 2-hydroxyethyl ester), 9, III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	274, 335, 601, 375
Classification code	M6
Tunnel restriction code	(-)

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
Acrylic acid, 2-hydroxyethyl ester 818-61-1	RG 65
Proprietary	RG 84
Methanol 67-56-1	RG 84
Heptane 142-82-5	RG 84
4-Methoxyphenol/ Mequinol	RG 65

150-76-5	
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Germany

Water hazard class (WGK) obviously 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.	-
Acrylic acid, 2-hydroxyethyl ester - 818-61-1	75.	-
Methanol - 67-56-1	69.	-
Heptane - 142-82-5	75.	-
4-Methoxyphenol/ Mequinol - 150-76-5	75.	-

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

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per Seveso Directive (2012/18/EU)

Chemical name	Lower-tier requirements (tons)	Upper-tier requirements (tons)
Methanol - 67-56-1	500	5000

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

H301 - Toxic if swallowed

H302 - Harmful if swallowed

H304 - May be fatal if swallowed and enters airways

H310 - Fatal in contact with skin

H311 - Toxic 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
 H370 - Causes damage to organs
 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
 H413 - May cause long lasting harmful effects to aquatic life

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
 + Sensitisers

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 - vapour	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 hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 EPA (Environmental Protection Agency)
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)

Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

Revision Date 22-Dec-2020

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

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End of Safety Data Sheet