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Revision Number 1

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

| | |
|---|--------------------------------|
| Product Code(s) | SDS-06401 EN E |
| Product Name | Agilus30™ Yellow, FLX931 |
| PN (Part Number) | OBJ-03084, OBJ-18915 |
| 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 | |
| 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

H411 - Toxic to aquatic life with long lasting effects Contains oxybis(methyl-2,1-ethanediyl) diacrylate, 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

Toxic to aquatic life.

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 (H310) | | Skin Sens. 1::C>=0.2% | 01-211945934 5-34-XXXX |

| | | | | | | | |
|---|--------------------------|----------|---------|---|--|---|-------------------|
| | | | | Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT SE 3 (H335) Aquatic Acute 1 (H400) Aquatic Chronic 3 (H412) | | | |
| Proprietary | No information available | - | 0.1-0.3 | Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Eye Dam. 1 (H318) | | - | No data available |
| Stabilizer | - | - | 0.1-0.3 | Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) | | - | No data available |
| 2,6-Bis(1,1-Dimethyl-4-Methyl-Phenyl)-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-Trimethyltricyclo[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 :: C>=10% STOT SE 2 :: 3%<=C<10% | No data available |

| | | | | | | | |
|---------|-----------|----------|------|--|--|---|----------------------|
| | | | | STOT SE 1 (H370) Flam. Liq. 2 (H225) | | | |
| Heptane | 205-563-8 | 142-82-5 | <0.1 | Skin Irrit. 2 (H315) STOT SE 3 (H336) Asp. Tox. 1 (H304) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Flam. Liq. 2 (H225) | | - | 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 (CO ₂), 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 STEL 2000 ppm STEL 8000 mg/m ³ | - | TWA: 1600 mg/m ³ | TWA: 500 ppm TWA: 2085 mg/m ³ K* |
| 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 |
| 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[2.2.1.0 ^{2,6}]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 |
| 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 | TWA: 200 ppm TWA: 260 mg/m ³ | - | TWA: 200 ppm TWA: 260 mg/m ³ | - |

| | | | | | |
|--|--|---|--|---|---|
| | STEL: 600 ppm STEL: 780 mg/m ³ Sk* | pelle* | | * | |
| 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 | - |
| 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 |
| 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 via dérmica* |
| Methanol 67-56-1 | TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm P* | TWA: 200 ppm TWA: 260 mg/m ³ P* | TWA: 200 ppm TWA: 260 mg/m ³ K* | TWA: 200 ppm TWA: 260 mg/m ³ STEL: STEL ppm STEL: STEL mg/m ³ K* | TWA: 200 ppm TWA: 266 mg/m ³ via 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 |
| 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-Methyl-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 | | 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 | |

| | | | |
|---------------------|---|--|---|
| | Bindande KGV: 550 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 yellow
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) | 11,179.90 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) | - |
| Proprietary | = 4600 mg/kg = 4600 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | - |
| 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 |
|---------|---|-------------------------|-------------------------|

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 | Toxic to aquatic life. Toxic to aquatic life with long lasting effects. |
| Unknown aquatic toxicity | Contains 72.23959 % 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 | - | 0.78: 48 h Daphnia magna mg/L EC50 |

| | | flow-through | | |
|--|--|---|---|--------------------------------------|
| 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 | - | - |

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 |

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. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 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. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 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. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate) |
| 14.3 Transport hazard class(es) | 9 |
| 14.4 Packing group | III |
| Description | UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%), Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 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.
 (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%),
 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate)
14.3 Transport hazard class(es) 9
14.4 Packing group III
Description 3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 (2-[[[(butylamino)carbonyl]oxy]ethyl acrylate (main constituent >84%),
 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl acrylate), 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 |

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. | - |

Persistent Organic Pollutants

Not applicable

Dangerous substance category per Seveso Directive (2012/18/EU)

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
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 27-Dec-2020

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

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