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

1.1 Product identifier

Product name:	ANTIFOULINGTRANSPARENT
UFI code:	SV1K-H3QJ-300E-0NX5

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

Aerosol paint product.

1.3 Details of the supplier of the safety data sheet

Company name:	Silpar TK snc
Address:	Via Rosa Luxemburg 12/14 10093 - Collegno (TO)
Telephone:	+39 011 7791177
Fax:	+39 011 7791177
Email:	sicurezza@silpartkline.com

1.4 Emergency telephone number

CAVp "Osp. Pediatrico Bambino Gesù - Roma	Tel. +39 06 68593726
Az. Osp. Univ. Foggia	Tel. +39 0881 732326
Az. Osp. "A. Cardarelli" – Napoli	Tel. +39 081 7472870
CAV Policlinico "Umberto I" – Roma	Tel. +39 06 49978000
CAV Policlinico "A. Gemelli" – Roma	Tel. +39 06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica – Firenze	Tel. +39 055 7947819
CAV Centro Nazionale di Informazione Tossicologica – Pavia	Tel. +39 0382 24444
Osp. Niguarda Ca' Granda – Milano	Tel. +39 02 66101029
Azienda Ospedaliera Papa Giovanni XXII – Bergamo	Tel. +39 800883300
Azienda Ospedaliera Universitaria Integrata Verona	Tel. +39 800 011858

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Reg. EU n°1272/2008 [CLP]

Aerosols 1, H222+H229
Skin Irrit. 2 H315
Skin Sens. 1 H317
Eye Irrit. 2, H319
STOT SE 3 H335
STOT SE 3, H336
Aquatic Chronic 1 H410

2.2 Label elements

Hazard pictograms:

Signal word: Danger

Hazard statements:
H222 Extremely flammable aerosol
H229 Pressurised container: May burst if heated.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.
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
P103 ("Read label before use
P210Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211Do not spray on an open flame or other ignition source.
P251Do not pierce or burn, even after use.
P261Avoid breathing dust/fume/gas/mist/ vapours/spray.
P264 Wash hands thoroughly after use.
P271Use only outdoors or in a well-ventilated area.
P273 Do not release into the environment.
P280Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P410 + P412Protect from sunlight. Do not expose to temperatures exceeding 50 ºC/122 ºF.
P501 Dispose of contents/container in accordance with local/regional/ national/international regulations

Special provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Contains:
4,5-dichloro-2-octyl-2H-isothiazol-3-one; [DCOIT]
acetone; 2-propanone; propanone
Hydrocarbons, C9, aromatics
xylene (mixture of isomers)
rosin, rosin
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane

2.3 Other hazards

Substance vPvB: None - Substance PBT: None
Other dangers:
(EU Reg. 528/2012 - Art.58.3) This product contains biocides with fungicidal-algaecide properties:
DCOIT, Zinc Pyrithione.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

N.A.

3.2 Mixtures

1.CAS 2.N° EC 3.N° Index 4.N° REACH	Name	Weight (%)	Classification1272/2008 (CLP)
1. 67-64-1 2. 200-662-2 3. 606-001-00-8 4. 01-2119471330-49-XXXX	acetone; 2-propanone; propanone	30-40	Flam. Liq. 2 H225 Eye Irrit. 2 H319 STOT SE 3 H336 EUH066

1.68476-40-4 **2.270-681-9** **3.649-199-00-1** **4. 01-2119486557-22-XXXX**	hydrocarbons, C3-4; petroleum gas	25-30	Flam. Gas 1A H220 Press Gas (Liq.) H280 DECLK (CLP)*
1. 64742-95-6 **2. 918-668-5** **3. Not Available** **4. 01-2119455851-35 -XXXX**	Hydrocarbons, C9, aromatics	5-7	Flam. Liq. 3 H226 Asp. Tox. 1 H304 STOT SE 3 H335 STOT SE 3 H336 Aquatic Chronic 2 H411 EUH066 DECLP(CLP)*
1. 8050-09-7 **2. 232-475-7** **3. 650-015-00-7** **4. 01-2119480418-32-XXXX**	Rosina, rosin	7-10	Skin Sens. 1 H317
1. 1330-20-7 **2. 215-535-7** **3. 601-022-00-9** **4. 01-2119488216-32-XXXX**	xylene (mixture of isomers)	7-10	Flam. Liq. 3 H226 Asp. Tox. 1 H304 Eye Irrit. 2 H319 STOT SE 3 H335 STOT RE 2 H373 Skin Irrit. 2 H315 Dermal Acute Tox. 4 H312 Inhal Acute Tox. 4 H332 Aquatic Chronic 3 H412
1. 111-76-2 **2. 203-905-0** **3. 603-014-00-0** **4. 01-2119475108-36-XXXX**	2-butoxyethanol; ethylene glycol monobutyl ether	2.5-3	Acute Tox. 4 H332 Oral Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319
1. 64359-81-5 **2. 264-843-8** **3. 613-335-00-8** **4. Not Available**	4,5-dicloro-2-ottil-2H-isotiazol-3-one; [DCOIT]	0.3-0.5	Inhal Acute Tox. 2 H330 Oral Acute Tox. 4 H302 Skin Corr. 1 H314 Eye Dam. 1 H318 Skin Sens. 1A H317 Aquatic Acute 1 H400 M=100. Aquatic Chronic 1 H410 M=100. EUH071 Specific concentration limits: 0,025% <= C < 5%: Skin Irrit. 2 H315 0,025% <= C < 3%: Eye Irrit. 2 H319 C >= 0,0015%: Skin Sens. 1A H317 Acute toxicity estimate: STA - Oral 567 mg/kg b.w. STA - Inhalation (Dusts/mists) 0.16 mg/l
1. 100-41-4 **2. 202-849-4** **3. 601-023-00-4** **4. 01-2119489370-35-XXXX**	etilbenzene	0.1-0.25	Flam. Liq. 2 H225 Inhal Acute Tox. 4 H332 STOT RE 2 H373 Asp. Tox. 1 H304
1. 1675-54-3 **2. 216-823-5** **3. 603-073-00-2** **4. 01-2119456619-26-XXXX**	2,2-bis-[4-(2,3-epossipropossi)fenil]-propano	0.1-0.25	Eye Irrit. 2 H319 Skin Irrit. 2 H315 Skin Sens. 1 H317 Aquatic Chronic 2 H411 Specific concentration limits: C >= 5%: Eye Irrit. 2 H319 C >= 5%: Skin Irrit. 2 H315
1. 13463-41-7 **2. 236-671-3** **3. 613-333-00-7** **4. 01-2119511196-46-XXXX**	Zinco piritione;	972 ppm	Repr. 1B H360D Inhal Acute Tox. 2 H330 Oral Acute Tox. 3 H301 STOT RE 1 H372 Eye Dam. 1 H318 Aquatic Acute 1 H400 M=1000. Aquatic Chronic 1 H410 M=10.

1.34590-94-8 **2.252-104-2** **3.Not Available** **4.01-2119450011-60-XXXX**	metanolo alcool metilico	432 ppm	Flam. Liq. 2 H225 STOT SE 1 H370 Oral Acute Tox. 3 H301 Dermal Acute Tox. 3 H311 Inhal Acute Tox. 3 H331 Specific concentration limits: C >= 10%: STOT SE 1 H370 3% <= C < 10%: STOT SE 2 H371

The full text of the H phrases is given in section 16 of the safety data sheet

*DECLK (CLP): Substance classified in accordance with Note K, Annex VI of EC Regulation (EC)1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that thesubstance contains less than 0,1 % w/w 1,3-butadiene (Einecs No 203-450-8). If the substance is notclassified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403should apply. This note applies only to certain complex oil-derived substances in Part 3.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aidmeasures

Eye contact: In case of contact with the eyes, rinse them with water for an adequate amount of time and keeping the eyelids open, then immediately consult an ophthalmologist.
Protect the uninjured eye.

Skin contact: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

Ingestion: Do not under any circumstances induce vomiting. SEEK MEDICAL EXAMINATION IMMEDIATELY

Inhalation: Remove to open air. If unwell, contact a doctor.

4.2 Most important symptoms and effects, both acute and delayed

For symptoms and effects caused by the contained substances, see chap. 11.

4.3 Indication of any immediate medical attention and special treatment needed

In the event of an accident or discomfort, consult a doctor immediately (if possible show the instructions for use or the safety data sheet).

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
Extinguishing substances are: carbon dioxide, foam, chemical powder.
UNSUITABLE EXTINGUISHING EQUIPMENT
Do not use jets of water.

5.2 Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products.

5.3 Advice for firefighters

The heat causes an increase in pressure inside the container with the risk of bursting.
In the event of a fire, the aerosols, when they explode, can be projected violently at a distance, with the risk of spreading the fire.
Use suitable respiratory equipment.
Collect the contaminated water used to extinguish the fire separately. Do not discharge it into the sewer system.
If feasible from a safety point of view, move undamaged containers from the area of immediate danger.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2 Environmentalprecautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3 Methods and material for containment and cleaning up

Absorb the remainder with inert absorbent material. Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4 Reference to othersections

Refer to sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapors and mists.
Do not use empty containers before they have been cleaned.
Before transferring operations, make sure that there are no incompatible residual materials in the containers.
See also paragraph 8 for recommended protective devices.
General recommendations on occupational hygiene:
Contaminated clothing must be replaced before entering the dining areas. At work do not eat or drink.

7.2 Conditionsfor safe storage, including any incompatibilities

Vapors are heavier than air and can expand to the ground and form explosive mixtures with air. Prevent the formation of flammable or explosive concentrations in the air.
Store at temperatures below 20 ° C. Keep away from naked flames and heat sources.
Avoid direct exposure to the sun.
Keep away from open flames, sparks and heat sources. Avoid direct exposure to the sun.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Indication for the premises:
Fresh and adequately ventilated.
Provisions relating to the EU directive 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1

7.3 Specific end use(s)

See section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

OccupationalExposure Limits

DNEL exposure limit values

acetone; 2-propanone; propanone - CAS: 67-64-1
Industrial worker: 186 mg/kg - Professional worker: 186 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
Industrial worker: 2420 mg/m3 - Professional worker: 2420 mg/m3 - Exposure: Human inhalation - Frequency: Short term, local effects
Industrial worker: 1210 mg/m3 - Professional worker: 1210 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Consumer: 62 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects

Consumer: 62 mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects
Consumer: 200 mg/m3 - Exposure: Human Inhalation - Frequency: Long term, systemic effects
Hydrocarbons, C9, aromatic - CAS: 64742-95-6
Consumer: 11 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects
Industrial worker: 150 mg/m3 - Professional worker: 150 mg/m3 - Consumer: 32 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Industrial worker: 25 mg/kg - Professional worker: 25 mg/kg - Consumer: 11 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
xylene (mixture of isomers) - CAS: 1330-20-7
Industrial worker: 289 mg/m3 - Professional worker: 289 mg/m3 -
Consumer: 174 mg/m3 - Exposure: Human Inhalation - Frequency: Short term, local effects
Industrial worker: 180 mg/kg - Professional worker: 180 mg/kg - Consumer: 108 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
Industrial worker: 77 mg/m3 - Professional worker: 77 mg/m3 - Consumer: 14.8 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects
rosin, rosin - CAS: 8050-09-7
Consumer: 15 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects
Industrial worker: 176 mg/m3 - Professional worker: 176 mg/m3 -
Consumer: 52 mg/m3 - Exposure: Human Inhalation - Frequency: Long term,
systemic effects
Industrial worker: 25 mg/kg - Professional worker: 25 mg/kg - Consumer: 15
mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Industrial worker: 89 mg/kg - Consumer: 89 mg/kg - Exposure: Dermal
Human - Frequency: Short term, systemic effects
Industrial worker: 1091 mg/m3 - Consumer: 426 mg/m3 - Exposure: Inhalation
Human - Frequency: Short term, systemic effects
Industrial worker: 246 mg/m3 - Exposure: Human inhalation - Frequency: Short term, local effects
Industrial worker: 125 mg/kg - Consumer: 75 mg/kg - Exposure: Dermal
Human - Frequency: Long term, systemic effects
Industrial worker: 98 mg/m3 - Consumer: 59 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Consumer: 147 mg/m3 - Exposure: Human Inhalation - Frequency: Long term, local effects
Consumer: 26.7 mg/kg - Exposure: Human Oral - Frequency: Short term, systemic effects
Consumer: 6.3 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects
ethylbenzene - CAS: 100-41-4
Industrial worker: 77 mg/m3 - Professional worker: 77 mg/m3 - Consumer: 15 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Industrial worker: 293 mg/m3 - Professional worker: 293 mg/m3 - Exposure: Human inhalation - Frequency: Short term, systemic effects
Industrial worker: 180 mg/kg - Professional worker: 180 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
Consumer: 1.6 mg/kg - Exposure: Human Oral - Frequency: Long term, systemic effects
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane - CAS: 1675-54-3
Industrial worker: 12.25 mg/m3 - Professional worker: 12.25 mg/m3 -
Consumer: 0.75 mg/m3 - Exposure: Human inhalation - Frequency: Short term, systemic effects
Industrial worker: 12.25 mg/m3 - Professional worker: 12.25 mg/m3 -
Consumer: 0.75 mg/m3 - Exposure: Human Inhalation - Frequency: Long term, systemic effects
Industrial worker: 8.33 mg/kg - Professional worker: 8.33 mg/kg - Consumer: 3571 mg/kg - Exposure: Human dermal - Frequency: Short term, systemic effects
Industrial worker: 8.33 mg/kg - Professional worker: 8.33 mg/kg - Consumer: 3571 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
Industrial worker: 10 mg/kg - Professional worker: 10 mg/kg - Exposure:
Oral Human - Frequency: Short term, local effects

Industrial worker: 0.01 mg/kg - Professional worker: 0.01 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
methanol methyl alcohol - CAS: 67-56-1
Professional worker: 260 mg/m3 - Exposure: Human inhalation - Frequency: Long term, systemic effects
Professional worker: 260 mg/m3 - Exposure: Human inhalation - Frequency: Long term, local effects
Professional worker: 40 mg/kg - Exposure: Human dermal - Frequency: Long term, systemic effects
Consumer: 50 mg/m3 - Exposure: Human Inhalation - Frequency: Long term, systemic effects
Consumer: 50 mg/m3 - Exposure: Human Inhalation - Frequency: Long term, local effects
Consumer: 8 mg/kg - Exposure: Human Dermal - Frequency: Long term, systemic effects

PNEC exposure limit values
acetone; 2-propanone; propanone - CAS: 67-64-1
Target: Freshwater sediments - Value: 30.4 mg/kg
Target: Seawater sediments - Value: 3.04 mg/kg
Target: Soil (agricultural) - Value: 29.5 mg/kg
Target: Fresh water - Value: 10.6 mg/l
Target: Sea water - Value: 1.06 mg/l
xylene (mixture of isomers) - CAS: 1330-20-7
Target: Fresh water - Value: 0.327 mg/l
Target: Sea water - Value: 0.327 mg/l
Target: Freshwater sediments - Value: 12.46 mg/kg
Target: Seawater sediments - Value: 12.46 mg/kg
Target: Soil (agricultural) - Value: 2.31 mg/l
rosin, rosin - CAS: 8050-09-7
Target: Fresh water - Value: 0.0054 mg/l
Target: Sea water - Value: 0.00054 mg/l
Target: Freshwater sediments - Value: 0.02 mg/kg
Target: Seawater sediments - Value: 0.002 mg/kg
Target: Microorganisms in wastewater treatment - Value: 1000 mg/l
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Target: Freshwater sediments - Value: 34.6 mg/kg
Target: Seawater sediments - Value: 3.46 mg/kg
Target: Soil (agricultural) - Value: 2.33 mg/kg
Target: Fresh water - Value: 8.8 mg/l
Target: Sea water - Value: 0.88 mg/l
ethylbenzene - CAS: 100-41-4
Target: Fresh water - Value: 0.1 mg/l
Target: Sea water - Value: 0.01 mg/l
Target: Freshwater sediments - Value: 13.7 mg/kg
Target: Seawater sediments - Value: 1.37 mg/kg
Target: Soil (agricultural) - Value: 2.68 mg/kg
zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
Target: Fresh water - Value: 0.00009 mg/l
Target: Sea water - Value: 0.00009 mg/l
Target: Freshwater sediments - Value: 0.0095 mg/kg
Target: Seawater sediments - Value: 0.0095 mg/kg
Target: Microorganisms in wastewater treatment - Value: 0.01 mg/l
methanol methyl alcohol - CAS: 67-56-1
Target: Fresh water - Value: 154 mg/l
Target: Sea water - Value: 15.4 mg/l
Target: Freshwater sediments - Value: 570.4 mg/l

Technical controls
Ensure adequate ventilation, especially in confined areas.
Make sure eye washers and showers are close to the workplace.
Use anti-exposure equipment

Provide an emergency exit.

8.2 Exposure controls

Hands protection	Protect hands with category work gloves (ref. Standard EN 374). For the final choice of the material of the work gloves it is necessary to consider: compatibility, degradation, breakage time and permeation. In the case of preparations, the resistance of work gloves to chemical agents must be checked before use as it is not foreseeable. Gloves have a wear time that depends on the duration and method of use.
Respiratoryprotection	If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type AX filter combined with a type P filter should be worn (see standard EN 14387). Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited. In the event that the substance in question is odorless or its olfactory threshold is higher than the relative exposure limit and in case of emergency, or when the exposure levels are unknown or the concentration of oxygen in the work environment is less than 17% by volume, wear an open-circuit compressed air self-contained breathing apparatus (ref. standard EN 137) or respirator with external air intake for use with a full face mask, half mask or mouthpiece (ref. standard EN 138). Provide an eye wash and emergency shower system. The product must be used in highly ventilated environments and in the presence of strong localized aspirations, otherwise use the personal protective equipment indicated
Eye and face protection	Wear protective goggles (see standard EN 166).
Body and skin protection:	Wear professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344).

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Pigmented
Odour:	Characteristic of solvent
Odourthreshold:	N.A.
pH:	N.A.
Melting point/freezing point:	N.A.
Initial boiling point and boiling range:	1.8 ÷ 9.5 % Vol.
Flash point:	<0 °C
Evaporation rate:	N.A.
Flammability (solid, gas):	N.A.
Upper/lower flammability or explosive limits:	N.A.
Vapour pressure:	4.5 bar +/- 0.5 20 °C
Vapourdensity (Air=1):	>1
Relative density (Water=1):	0.75 +/- 0.05
Solubility(ies):	N.A.
Partition coefficient: n-octanol/water:	N.A.
Auto-ignition temperature (°C):	>400 °C
Decomposition temperature:	N.A.
Kinematicviscosity:	<20,5 mm2/s (40 °C)
Explosiveproperties:	N.A.
Oxidisingproperties:	N.A.

9.2 Other information

Deformation pressure: 15 bar
Burst pressure: 16 ÷ 20 bar
Volatile Organic Compounds – VOC: 645 g/l

Volatile Organic Compounds – VOC: 87.3 %

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
Stable under normal conditions.

10.2 Chemical stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Stable under normal conditions.

10.4 Conditions to avoid
Stable under normal conditions.

10.5 Incompatiblematerials
Avoid contact with oxidizing materials. The product could catch fire.

10.6 Hazardousdecomposition products
It does not decompose when used for its intended uses.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Unless otherwise specified, the data required by Regulation (EU) 878/2020 indicated below are to be understood N.A.:
ANTIFOULING TRANSPARENT
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met.
b) skin corrosion/irritation
The product is classified: Skin Irrit. 2 H315
c) serious eye damage/serious eye irritation
The product is classified: Eye Irrit. 2 H319
d) respiratory or skin sensitization
The product is classified: Skin Sens. 1A H317
e) mutagenicity of germ cells
Not classified
Based on available data, the classification criteria are not met.
f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met.
g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met.
h) specific target organ toxicity (STOT) – single exposure
The product is classified: STOT SE 3 H335;STOT SE 3 H336
(i) specific target organ toxicity (STOT) – repeated exposure
Not classified
Based on available data, the classification criteria are not met.
j) danger in case of aspiration
Not classified
Based on available data, the classification criteria are not met.
Toxicological information regarding the main substances present in the product:
acetone; 2-propanone; propanone - CAS: 67-64-1
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 5800 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 20 ml/kg

Test: LC50 - Route: Inhalation - Species: Rat = 76 mg/l - Duration: 4h
b) skin corrosion/irritation:
Test: Skin irritant Positive
hydrocarbons, C3-4; petroleum gas - CAS: 68476-40-4
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 800000 ppm - Duration: 15 min.
Test: LC50 - Route: Inhalation - Species: Rat = 1442738 mg/m3 - Duration: 15 min.
Test: LC50 - Route: Inhalation - Species: Rat = 1443 mg/l - Duration: 15 min.
Hydrocarbons, C9, aromatic - CAS: 64742-95-6
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 6193 mg/m3 - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3592 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 3160 mg/kg
xylene (mixture of isomers) - CAS: 1330-20-7
a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 20 mg/l - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 4200 ml/kg
rosin, rosin - CAS: 8050-09-7
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat = 2800
Test: LD50 - Route: Skin - Species: Rat > 2000
b) skin corrosion/irritation:
Route: Skin - Species: Negative Rabbit
c) serious eye damage/serious eye irritation:
Species: Negative Rabbit
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
a) acute toxicity
STA - Oral 1200 mg/kg b.w.
Test: LC50 - Route: Inhalation - Species: Rat = 20 ppm - Duration: 4h
Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
4,5-dichloro-2-octyl-2H-isothiazol-3-one; [DCOIT] - CAS: 64359-81-5
a) acute toxicity
STA - Oral 567 mg/kg b.w.
STA - Inhalation (Dusts/mists) 0.16 mg/l
Test: LD50 - Route: Oral - Species: Rat = 3 mg/kg
ethylbenzene - CAS: 100-41-4
a) acute toxicity:
Test: LD50 - Route: Skin - Species: Rabbit = 17800 mg/kg
Test: LD50 - Route: Oral - Species: Rat = 3500 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat = 4000 mg/l - Duration: 4h
2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane - CAS: 1675-54-3
a) acute toxicity:
Test: LD50 - Route: Oral - Species: Rat > 2000 mg/kg
Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg
zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
a) acute toxicity
STA - Oral 221 mg/kg b.w.
STA - Inhalation (Dusts/mists) 0.14 mg/l
Test: LD50 - Route: Oral - Species: Rat > 269 mg/kg
Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg
Test: LC50 - Route: Inhalation - Species: Rat > 1.03 mg/l - Duration: 4h

11.2 Information on other hazards

Properties of interference with the endocrine system:

No endocrine disruptors present in concentration> = 0.1%

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

ANTIFOULINGTRASPARENT

The product is classified: Aquatic Acute 1 - H400; Aquatic Chronic 1 - H410

acetone; 2-propanone; propanone - CAS: 67-64-1
a) Acute aquatictoxicity:
Endpoint: EC50 - Species: Algae = 530 mg/l - Notes: 8 d
Endpoint: LC50 - Species: Fish = 8120 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 8800 mg/l - Duration h: 48
b) Chronic aquatic toxicity:
Endpoint: NOEC - Species: Daphnia = 2212 mg/l - Notes: 28 d

Hydrocarbons, C9, aromatic - CAS: 64742-95-6
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 9.2 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 3.2 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 2.9 mg/l - Duration h: 72

xylene (mixture of isomers) - CAS: 1330-20-7
a) Acute aquatic toxicity:
Endpoint: EC50 - Species: Daphnia = 1 mg/l - Duration h: 24
Endpoint: LC50 - Species: Fish = 2.6 mg/l - Duration h: 96
Endpoint: NOEC - Species: Algae = 0.44 mg/l - Duration h: 73
b) Chronic aquatic toxicity:
Endpoint: NOEC - Species: Daphnia = 1.57 mg/l - Duration h: 504
Endpoint: NOEC - Species: Fish > 1.3 mg/l - Duration h: 1344

rosin, rosin - CAS: 8050-09-7
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 60.3 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 911 mg/l - Duration h: 48
Endpoint: EL50 - Species: Algae > 1000 mg/l - Duration h: 72

2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
a) Acute aquatic toxicity:
Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72
Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96
b) Chronic aquatic toxicity:
Endpoint: NOEC - Species: Fish > 100 mg/l - Notes: 21 d
Endpoint: NOEC - Species: Daphnia = 100 mg/l - Notes: 21 d

4,5-dichloro-2-octyl-2H-isothiazol-3-one; [DCOIT] - CAS: 64359-81-5
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 0.0027 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.0052 mg/l - Duration h: 48

ethylbenzene - CAS: 100-41-4
a) Acute aquatic toxicity:
Endpoint: EC50 - Species: Daphnia = 75 mg/l - Duration h: 48 - Notes: Daphnia magna
Endpoint: LC50 - Species: Fish = 48.5 mg/l - Duration h: 96 - Notes: Phimephales

2,2-bis-[4-(2,3-epoxypropoxy)phenyl]-propane - CAS: 1675-54-3
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 1.5 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 2.7 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae > 9.4 mg/l - Duration h: 72

zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 0.0026 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia = 0.0082 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae > 0.0012 mg/l - Duration h: 72
methanol methyl alcohol - CAS: 67-56-1
a) Acute aquatic toxicity:
Endpoint: LC50 - Species: Fish = 29400 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 10000 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae = 22000 mg/l - Duration h: 72

12.2 Persistence and degradability

acetone; 2-propanone; propanone - CAS: 67-64-1
Biodegradability: Rapidly degradable
hydrocarbons, C3-4; petroleum gas - CAS: 68476-40-4
Biodegradability: Rapidly degradable
Hydrocarbons, C9, aromatic - CAS: 64742-95-6
Biodegradability: Rapidly degradable
rosin, rosin - CAS: 8050-09-7
Biodegradability: Not rapidly degradable
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Biodegradability: Rapidly degradable
4,5-dichloro-2-octyl-2H-isothiazol-3-one; [DCOIT] - CAS: 64359-81-5
Biodegradability: Not rapidly degradable
zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
Biodegradability: Rapidly degradable

12.3 Bioaccumulative potential

acetone; 2-propanone; propanone - CAS: 67-64-1
Bioaccumulation: Not bioaccumulative - Test: BCF - Bioconcentration factor 3
Bioaccumulation: Not bioaccumulative - Test: Kow - Partition coefficient 0.24
hydrocarbons, C3-4; petroleum gas - CAS: 68476-40-4
Bioaccumulation: Not bioaccumulative
rosin, rosin - CAS: 8050-09-7
Test: Kow - Partition coefficient 3
Test: BCF - Bioconcentration factor 56.23
2-butoxyethanol; ethylene glycol monobutyl ether - CAS: 111-76-2
Test: Kow - Partition coefficient 0.81 - Notes: 1-OCTANOL/WATER
4,5-dichloro-2-octyl-2H-isothiazol-3-one; [DCOIT] - CAS: 64359-81-5
Test: Kow - Partition coefficient 6.4 - Notes: Log Kow
zinc pyrithione; (T-4)-bis[1-(hydroxy-.kappa.O)pyridin-2(1H)-thionato-.kappa.S]zinc - CAS: 13463-41-7
Test: Kow - Partition coefficient 0.883
Test: BCF - Bioconcentration factor 50
methanol methyl alcohol - CAS: 67-56-1
Test: Kow - Partition coefficient 0.82
Test: BCF - Bioconcentration factor 10

12.4 Mobility in soil

Information not available

12.5 Results of PBT and vPvB assessment

On the basis of available data, the product does not contain PBT or vPvB substances in percentage greater than 0.1%.

12.6 Endocrine disruptingproperties

No data available

12.7 Other adverseeffects

No data available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations. Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations. Avoid littering. Do not contaminate soil, sewers and waterways. Waste transportation may be subject to ADR restrictions. CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.
Additional disposal information:
CER CODE = 160504

SECTION 14: TRANSPORT INFORMATION

14.1 UN number or ID number

ADR-UN number: 1950
IATA-Un number: 1950
IMDG-Un number: 1950

14.2 UN proper shipping name

ADR-Shipping Name: Aerosol (Hydrocarbons, C9, aromatics)
IATA-Technical name: Aerosol(Hydrocarbons, C9, aromatics)
IMDG-Technical name: Aerosol(Hydrocarbons, C9, aromatics)

14.3 Transport hazard class(es)

ADR-Class: 2 5F
ADR-Label: 2
ADR - Hazard identification number: -
IATA-Class: 2.1
IATA-Label: 2.1
IMDG-Class: 2

14.4 Packing group

ADR-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -

14.5 Environmental hazards

Marine pollutant: Yes

14.6 Special precautions for user

IATA-Passenger Aircraft: ---
IATA-Cargo Aircraft: 203
IMDG-Technical name: Aerosol
IMDG-Page: F-D, S-U

14.7 Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: REGULATORY INFORMATION

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

Seveso Category - Directive 2012/18/EC:

P3a
Lower threshold requirements (tonnes): 150
Upper threshold requirements (tons): 500
E1
Lower threshold requirements (tonnes): 100
Upper tier requirements (tons): 200

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation1907/2006.
Restrictions related to the product:
Restriction 3
Restriction 40
Restrictions relating to the substances contained:
Restriction 75
Where applicable, refer to the following regulations:
Ministerial Circulars 46 and 61 (Aromatic amines)

Substances subject to authorisarion (Annex XIV REACH).
None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:
None.

Substances subject to the Rotterdam Convention:
None.

Substances subject to the Stockholm Convention:
None.

Healthcare controls.
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

Volatile Organic Compounds - VOC = 645 g/l
Volatile Organic Compounds - VOC = 87.3 %
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions andsignificant disappearances and thefts must be reported to the national contact pointqualified.

15.2 Chemical safetyassessment

A chemical safety assessment has not been carried out for the mixture
Substances for which a chemical safety assessment has been carried out:
Hydrocarbons, C9, aromatics
xylene (mixture of isomers)
2-butoxyethanol; ethylene glycol monobutyl ether
1-methoxy-2-propanol; propylene glycol mono methyl ether
1-methyl-2-methoxyethyl acetate; 2-methoxy-1-methylethyl acetate

SECTION 16: OTHER INFORMATION

Full text of H codes mentioned in sections 2 - 3

H220 Highly flammable gas.
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.

H311 Toxic 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.
H330 Fatal if inhaled.
H331 Toxic if inhaled.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H360D May harm the unborn child.
H370 Causes damage to organs.
H371 May cause damage to organs.
H372 Causes damage to organs through prolonged or repeated exposure.
H373 May cause damage to organs (hearing organs) through prolonged or repeated exposure.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.
H400 Very toxic to aquatic organisms.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic organisms with long lasting effects.
EUH071 Corrosive to the respiratory tract.
EUH066 Repeated exposure may cause skin dryness or cracking.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation.

Classification and procedure used to derive it according to regulation (EC)1272/2008 [CLP] in relation to mixture:

Aerosols 1, H222, H229 - Based on experimental evidence
Skin Sens. 1 H317 - Calculation method
Eye Irrit. 2, H319 - Calculation method
STOT SE 3, H336 - Calculation method
Aquatic Chronic 1 H410 - Calculation method

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The Merck Index. - 10th Edition
Handling Chemical Safety
INRS - Fiche Toxicologique (toxicological sheet)
Patty - Industrial Hygiene and Toxicology
N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
ECHA website

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