	Safety Data Sheet	Issue date: 12/07/2019
		Revision date: 25/01/2022
	APPRET GLYCERO	Version: 13.4
		Product code : 07080

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

1.1. Product identifier

Product form : Mixture

Product name : APPRET GLYCERO

Product code : 30380-30381

Type of product : Paint

Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Industrial use,Professional use

Function or use category : Paints and coatings

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the Safety Data Sheet

IPC
10 Quai Malbert, 29200, BREST, FRANCE.
Tel. : +33 (0)2 98 43 45 44. Fax : +33 (0)2 98 44 22 53
ipc@groupe-ipc.com

1.4. Emergency telephone number

Emergency number : ORFILA (INRS) : 01 45 42 59 59, 24h sur 24, 7j sur 7
French poison and toxicity monitoring centres : http://www.centres-antipoison.net

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) 1272/2008

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H335
STOT RE 2	H373
Aquatic Chronic 3	H412

Full text of hazard classes, H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) 1272/2008

Hazard pictograms :

GHS02 GHS07 GHS08

Signal word : Warning

Hazardous ingredients : Maleic anhydride, Aromatic hydrocarbons, C8

Hazard statements : H226 - Flammable liquid and vapour.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs (central nerve) through prolonged or repeated exposure (if inhaled).
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements : P210 - Keep away from hot surfaces, open flames, sparks, heat. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P260 - Do not breathe spray.

P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear face protection, eye protection, protective clothing, protective gloves.
In case of spraying, work under aspiration/booth and wear a respiratory protective mask conform to EN140 equipped with P2 or P3-type filter, or wear an anti-aerosol mask type FFP2 or FFP3 conform to EN149. Do not breathe aerosols.

EUH-statements : EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
Aromatic hydrocarbons, C8	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-methoxy-1-methylethyl acetate (108-65-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-butanone oxime (96-29-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Maleic anhydride (108-31-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

The mixture does not contain any substance included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in the Delegated Regulation (EU) 2017/2100 or the Regulation (EU) 2018/605

SECTION 3: Composition/information on ingredients

3.1. Substances

Not established.

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) 1272/2008
Aromatic hydrocarbons, C8 substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit (Note J)	EC-No.: 905-588-0 REACH-no: 01-2119486136-34	30 – 40	Flam. Liq. 3, H226 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Muta. Not classified Carc. Not classified STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute Not classified Aquatic Chronic Not classified
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] substance with national workplace exposure limit(s) (FR) (Note V)(Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 REACH-no: 01-2119489379-17	≥ 10 – < 20	Carc. Not classified
2-methoxy-1-methylethyl acetate substance with national workplace exposure limit(s) (FR); substance with a Community workplace exposure limit	CAS-No.: 108-65-6 EC-No.: 203-603-9 EC Index-No.: 607-195-00-7 REACH-no: 01-2119475791-29	≥ 5 – < 10	Flam. Liq. 3, H226
Trizinc bis(o-phosphate)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 EC Index-No.: 030-011-00-6 REACH-no: 01-2119485044-40	≥ 1 – < 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	Classification according to Regulation (EC) 1272/2008
2-butanone oxime substance with national workplace exposure limit(s) (FR, GB)	CAS-No.: 96-29-7 EC-No.: 202-496-6 EC Index-No.: 616-014-00-0 REACH-no: 01-2119539477-28	≥ 0,1 – < 1	Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351
Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z)	CAS-No.: 147900-93-4 EC-No.: 604-612-4 REACH-no: 01-2119971821-33	≥ 0,1 – < 1	Skin Sens. 1, H317 STOT RE 2, H373 Aquatic Chronic 2, H411
Fatty acids, tall-oil, compounds with oleylamine	CAS-No.: 85711-55-3 EC-No.: 288-315-1 REACH-no: 01-2119974148-28	≥ 0,1 – < 1	Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373
Maleic anhydride substance with national workplace exposure limit(s) (FR)	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	< 0,1	Acute Tox. 4 (Oral), H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Resp. Sens. 1, H334 Skin Sens. 1A, H317 STOT RE 1, H372

Specific concentration limits:

Name	Product identifier	Specific concentration limits
Maleic anhydride	CAS-No.: 108-31-6 EC-No.: 203-571-6 EC Index-No.: 607-096-00-9 REACH-no: 01-2119472428-31	(0,001 ≤C ≤ 100) Skin Sens. 1A, H317

Note 10 : The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 µm.
Note J: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes.
Note V : If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
Note W : It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.
Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Allow affected person to breathe fresh air. Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : If skin irritation occurs: Get medical advice/attention. Wash with soapy water. If skin irritation or rash occurs: Get medical advice/attention. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Repeated exposure may cause skin dryness or cracking.

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. If you feel unwell, seek medical advice.

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

Symptoms/effects : Causes damage to organs (respiratory system/digestive system) (if inhaled).

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : May cause an allergic skin reaction. May cause moderate irritation. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Dry powder. Alcohol resistant foam.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapour.

Explosion hazard : May form flammable/explosive vapour-air mixture.

Hazardous decomposition products in case of fire : Carbon dioxide. Carbon monoxide.

5.3. Advice for firefighters

Precautionary measures fire : Evacuate area.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus. Complete protective clothing. Do not attempt to take action without suitable protective equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. Ensure adequate ventilation. Absorb spillage to prevent material damage.

6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Evacuate unnecessary personnel.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Concerning personal protective equipment to use, see section 8. Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.

Precautions for safe handling : Take precautionary measures against static discharge. Ensure good ventilation of the work station. Do not breathe vapours, mist. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required. Close container tightly after use. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Handling temperature : < 30 °C

Hygiene measures : Do not eat, drink or smoke when using this product. Separate working clothes from town clothes. Launder separately. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Provide local exhaust or general room ventilation.

Storage conditions : Keep container tightly closed.

Incompatible materials : Heat sources.

Storage temperature : < 40 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1.Control parameters

Aromatic hydrocarbons, C8		
France	Local name	Xylène: mélange d'isomères
France	VME (OEL TWA)	221 mg/m³
France	VME (OEL TWA) [ppm]	50 ppm
France	VLE (OEL C/STEL)	442 mg/m³
France	VLE (OEL C/STEL) [ppm]	100 ppm
France	Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)		
France	Local name	Titane (dioxyde de), en Ti
France	VME (OEL TWA)	10 mg/m³
France	Remark	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

2-methoxy-1-methylethyl acetate (108-65-6)		
France	Local name	Acétate de 2-méthoxy-1-méthyléthyle
France	VME (OEL TWA)	275 mg/m³
France	VME (OEL TWA) [ppm]	50 ppm
France	VLE (OEL C/STEL)	550 mg/m³
France	VLE (OEL C/STEL) [ppm]	100 ppm
France	Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
France	Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)

2-butanone oxime (96-29-7)		
France	VME (OEL TWA)	10 mg/m³ recommended
France	VME (OEL TWA) [ppm]	3 ppm recommended
France	VLE (OEL C/STEL)	33 mg/m³ recommended
France	VLE (OEL C/STEL) [ppm]	10 ppm recommended

Maleic anhydride (108-31-6)		
France	Local name	Anhydride maléique
France	VLE (OEL C/STEL)	1 mg/m³
France	Remark	Valeurs recommandées/admises; risque d'allergie
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

8.1.1 National occupational exposure and biological limit values

Aromatic hydrocarbons, C8	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Xylene, mixed isomers, pure
IOEL TWA	221 mg/m³
IOEL TWA [ppm]	50 ppm
IOEL STEL	442 mg/m³
IOEL STEL [ppm]	100 ppm
Remark	Skin
France - Occupational Exposure Limits	
Local name	Xylène: mélange d'isomères
VME (OEL TWA)	221 mg/m³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	442 mg/m³
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
France - Occupational Exposure Limits	
Local name	Titane (dioxyde de), en Ti
VME (OEL TWA)	10 mg/m³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

2-methoxy-1-methylethyl acetate (108-65-6)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-Methoxy-1-methylethylacetate
IOEL TWA	275 mg/m³
IOEL TWA [ppm]	50 ppm
IOEL STEL	550 mg/m³
IOEL STEL [ppm]	100 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
France - Occupational Exposure Limits	
Local name	Acétate de 2-méthoxy-1-méthyléthyle
VME (OEL TWA)	275 mg/m³
VME (OEL TWA) [ppm]	50 ppm
VLE (OEL C/STEL)	550 mg/m³
VLE (OEL C/STEL) [ppm]	100 ppm
Remark	Valeurs règlementaires contraignantes; risque de pénétration percutanée
Regulatory reference	Article R4412-149 du Code du travail (réf.: INRS ED 984, 2016; Décret n° 2019-1487)

2-butanone oxime (96-29-7)	
France - Occupational Exposure Limits	
VME (OEL TWA)	10 mg/m³ recommended
VME (OEL TWA) [ppm]	3 ppm recommended
VLE (OEL C/STEL)	33 mg/m³ recommended
VLE (OEL C/STEL) [ppm]	10 ppm recommended
United Kingdom - Occupational Exposure Limits	
WEL TWA (OEL TWA) [1]	10 mg/m³

2-butanone oxime (96-29-7)	
WEL TWA (OEL TWA) [2]	3 ppm
WEL STEL (OEL STEL)	33 mg/m³
WEL STEL (OEL STEL) [ppm]	10 ppm

Maleic anhydride (108-31-6)	
France - Occupational Exposure Limits	
Local name	Anhydride maléique
VLE (OEL C/STEL)	1 mg/m³
Remark	Valeurs recommandées/admises; risque d'allergie
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Aromatic hydrocarbons, C8	
DNEL/DMEL (Workers)	
Acute - systemic effects, inhalation	442 mg/m³ ECHA
Acute - local effects, inhalation	442 mg/m³ ECHA
Long-term - systemic effects, dermal	212 mg/kg bodyweight/day ECHA
Long-term - systemic effects, inhalation	221 mg/m³ ECHA
Long-term - local effects, inhalation	221 mg/m³ ECHA
DNEL/DMEL (General population)	
Acute - systemic effects, inhalation	260 mg/m³ ECHA
Acute - local effects, inhalation	260 mg/m³ ECHA
Long-term - systemic effects,oral	12,5 mg/kg bodyweight/day ECHA
Long-term - systemic effects, inhalation	65,3 mg/m³ ECHA
Long-term - systemic effects, dermal	125 mg/kg bodyweight/day ECHA
Long-term - local effects, inhalation	65,3 mg/m³ ECHA
PNEC (Water)	
PNEC (freshwater)	0,327 mg/l ECHA
PNEC (marine water)	0,327 mg/l ECHA
PNEC (intermittent, freshwater)	0,327 mg/l ECHA
PNEC (Sediment)	
PNEC sediment (freshwater)	12,46 mg/kg dwt ECHA
PNEC sediment (marine water)	12,46 mg/kg dwt ECHA
PNEC (Soil)	
PNEC soil	2,31 mg/kg dwt ECHA
PNEC (STP)	
PNEC (sewage treatment plant)	6,58 mg/l ECHA

Maleic anhydride (108-31-6)	
DNEL/DMEL (Workers)	
Acute - systemic effects, dermal	0,04 mg/kg bw/day
Acute - systemic effects, inhalation	0,8 mg/m³ (ECHA)
Acute - local effects, dermal	0,04 mg/kg bw/day
Acute - local effects, inhalation	0,8 mg/m³ (ECHA)
Long-term - systemic effects, inhalation	0,4 mg/m³ (ECHA)
Long-term - local effects, inhalation	0,4 mg/m³ (ECHA)
PNEC (Water)	
PNEC (freshwater)	0,04281 mg/l
PNEC (marine water)	0,004281 mg/l
PNEC (intermittent, freshwater)	0,4281 mg/l (ECHA)
PNEC (Sediment)	
PNEC sediment (freshwater)	0,334 mg/kg dwt (ECHA)
PNEC sediment (marine water)	0,0334 mg/kg dwt (ECHA)
PNEC (Soil)	
PNEC soil	0,0415 mg/kg dwt
PNEC (STP)	
PNEC (sewage treatment plant)	44,6 mg/l (ECHA)

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Avoid all unnecessary exposure . Restrict access to authorized staff during the use and the cleaning processes. Provide local exhaust or general room ventilation. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):

8.2.2.1. Eye and face protection

Eye protection:
Chemical goggles. conform to EN 166 standard.

8.2.2.2. Skin protection

Skin and body protection:
Wear protective clothing suitable for the specific operational conditions. conform to EN 943, EN 14605 and EN ISO 13982 standards.

Hand protection:
Wear gloves chemically resistant to the substances listed in Section 3 of this SDS. We recommend the following materials. If needed, request our "Gloves safe use instructions".

Type	Material	Permeation	Thickness (mm)	Standard
Gloves for extended use or reusable	Fluorinated elastomer (eg VITON) gloves, Multilayer laminate (e.g Silvershield 4H) gloves	5 (> 240 minutes), 6 (> 480 minutes)	According to the operational conditions	EN ISO 374

Other skin protection

Protective clothing:
Wear protective clothing suitable for the specific operational conditions. conform to EN 943, EN 14605 and EN ISO 13982 standards.

8.2.2.3. Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment. Mask conform to the EN136, EN140 and EN14387 standards, with cartridge or filter of type . A - High-boiling point, >65°C, organic compounds (brown). In case of spraying, work under aspiration/booth and wear a respiratory protective mask conform to EN140 equipped with P2 or P3-type filter, or wear an anti-aerosol mask type FFP2 or FFP3 conform to EN149. Do not breathe aerosols.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Not available
Odour	:	Characteristic.
Odour threshold	:	Not available
Melting point	:	Not available
Freezing point	:	Not available
Boiling point	:	Not available
Explosive limits	:	Not available
Lower explosion limit	:	Not available
Upper explosion limit	:	Not available
Flash point	:	> 23 °C
Flash point	:	Between 23°C and 60°C (estimated)
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	Not available
Solubility	:	Not available

Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure at 20°C : Not available
Vapour pressure at 50°C : Not available
Density : 1,273
Vapour density : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes
No additional information available

9.2.2. Other safety characteristics
VOC content estimate : 516 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions of use.

10.2. Chemical stability
May form flammable/explosive vapour-air mixture. Stable under normal conditions of use.

10.3. Possibility of hazardous reactions
None under normal use.

10.4. Conditions to avoid
Open flame. Overheating. Direct sunlight. Heat. Sparks. None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials
None to our knowledge.

10.6. Hazardous decomposition products
Fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified
Skin corrosion/irritation : Causes skin irritation.
Additional information : Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Aromatic hydrocarbons, C8	
IARC group	3 - Not classifiable

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

Aromatic hydrocarbons, C8	
STOT-single exposure	May cause respiratory irritation.

STOT-repeated exposure : May cause damage to organs (central nerve) through prolonged or repeated exposure (if inhaled).

Aromatic hydrocarbons, C8	
NOAEL (oral, rat, 90 days)	250 mg/kg bodyweight/day
NOAEC (inhalation, rat, vapour, 90 days)	4,35 mg/l

Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	
NOAEL (oral, rat, 90 days)	7,1 mg/kg bodyweight/day
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	
LOAEL (oral, rat, 90 days)	7,1 mg/kg bodyweight/day OCDE 422
STOT-repeated exposure	May cause damage to organs (digestive system) through prolonged or repeated exposure (if swallowed).

Maleic anhydride (108-31-6)	
STOT-repeated exposure	Causes damage to organs (respiratory system) through prolonged or repeated exposure (inhalation).

Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

APPRET ANTIROUILLE PPZA GRIS VERT	
Persistence and degradability	May cause long-term adverse effects in the environment.

Aromatic hydrocarbons, C8	
Persistence and degradability	Readily biodegradable.
Biodegradation	87,8 % 28d

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Persistence and degradability	Not biodegradable.
Biodegradation	< 10 %

2-methoxy-1-methylethyl acetate (108-65-6)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	0,00036 g O2/l
Chemical oxygen demand (COD)	0,00174 g O_2/g substance
Biodegradation	83 % 28d

2-butanone oxime (96-29-7)	
Persistence and degradability	Biodegradable.

Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	
Persistence and degradability	Poorly biodegradable. May cause long-term adverse effects in the environment.

Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	
Persistence and degradability	Readily biodegradable.
Biodegradation	87 % 28d

Maleic anhydride (108-31-6)	
Persistence and degradability	Readily biodegradable.
Biodegradation	77 (73 – 81) % 28d

12.3. Bioaccumulative potential

Aromatic hydrocarbons, C8	
Bioconcentration factor (BCF REACH)	25,9
Partition coefficient n-octanol/water (Log Pow)	3,16
Partition coefficient n-octanol/water (Log Kow)	3,16
Bioaccumulative potential	Considered not bioaccumulable.

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Bioaccumulative potential	Low bioaccumulation potential.

2-methoxy-1-methylethyl acetate (108-65-6)	
Partition coefficient n-octanol/water (Log Pow)	0,36
Bioaccumulative potential	Low bioaccumulation potential.

2-butanone oxime (96-29-7)	
Bioconcentration factor (BCF REACH)	0,5 ECHA
Partition coefficient n-octanol/water (Log Pow)	0,63
Bioaccumulative potential	Low bioaccumulation potential.

Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	
Bioaccumulative potential	Not established.

Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	
Bioaccumulative potential	Not established.

Maleic anhydride (108-31-6)	
Partition coefficient n-octanol/water (Log Pow)	-2,61 (ECHA)
Bioaccumulative potential	Low bioaccumulation potential.

12.4. Mobility in soil

APPRET ANTIROUILLE PPZA GRIS VERT	
Ecology - soil	Not established.

Aromatic hydrocarbons, C8	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2,73
Ecology - soil	Not established.

Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	
Ecology - soil	Low adsorption.

2-methoxy-1-methylethyl acetate (108-65-6)	
Surface tension	27,6 mN/m
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0,23 (estimated)
Ecology - soil	High adsorption. Not established.

2-butanone oxime (96-29-7)	
Ecology - soil	Not established.

Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	
Ecology - soil	Not established.

Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	
Ecology - soil	Not established.

Maleic anhydride (108-31-6)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	1,63 ECHA
Ecology - soil	Not established.

12.5. Results of PBT and vPvB assessment

APPRET ANTIROUILLE PPZA GRIS VERT
This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Component	
Aromatic hydrocarbons, C8	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm] (13463-67-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-methoxy-1-methylethyl acetate (108-65-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
2-butanone oxime (96-29-7)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Unsaturated fatty acids (C18), trimers with 9-octadecen-1-amine, (Z) (147900-93-4)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Fatty acids, tall-oil, compounds with oleylamine (85711-55-3)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Maleic anhydride (108-31-6)	This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Handle empty containers with care because residual vapours are flammable. Uncleaned containers must be considered as hazardous products, in the same way as the product contained therein.

Ecology - waste materials : Avoid release to the environment.

European List of Waste (LoW) code : 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances

SECTION 14: Transport information

Not subject to the requirements of IMDG/ADR, under 2.3.2.5/2.2.3.1.5, for packings containing less than 450 liters

14.1. UN number or ID number

UN-No : 1263

14.2. UN proper shipping name

Proper Shipping Name : Paint

14.3. Transport hazard class(es)

Class (ADR) : 3 - Flammable liquids

Danger labels : 3

14.4. Packing group

Packing group : III

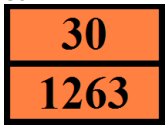
14.5. Environmental hazards

Dangerous for the environment : No
Marine pollutant : No

14.6. Special precautions for user

14.6.1. Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 163, 640E, 650
Limited quantities (ADR) : 5l
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Special packing provisions (ADR) : PP1
Mixed packing provisions (ADR) : MP19
Portable tank and bulk container instructions (ADR) : T2
Portable tank and bulk container special provisions (ADR) : TP1, TP29
Tank code (ADR) : LGBF
Vehicle for tank carriage : FL
Transport category (ADR) : 3
Special provisions for carriage - Packages (ADR) : V12
Special provisions for carriage - Operation (ADR) : S2
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •3YE

14.6.2. Transport by sea

Special provisions (IMDG) : 163, 223, 955
Limited quantities (IMDG) : 5 L
Excepted quantities (IMDG) : E1
Packing instructions (IMDG) : P001, LP01
Special packing provisions (IMDG) : PP1
IBC packing instructions (IMDG) : IBC03
Tank instructions (IMDG) T2
Tank special provisions (IMDG) : TP1, TP29
EmS-No. (Fire) : F-E
EmS-No. (Spillage) S-E
Stowage category (IMDG) : A

14.6.3. Air transport

CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
PCA packing instructions (IATA) : 355
PCA Limited quantities (IATA) : Y344
PCA limited quantity max net quantity (IATA) : 10L
PCA max net quantity (IATA) : 60L
PCA Excepted quantities (IATA) : E1
Special provisions (IATA) : A3, A72, A192
ERG code (IATA) : 3L

14.6.4. Inland waterway transport

Classification code (ADN) : F1
Special provisions (ADN) : 163, 64E, 65
Limited quantities (ADN) : 5 L
Excepted quantities (ADN) : E1
Equipment required (ADN) : PP, EX, A
Ventilation (ADN) : VE01
Number of blue cones/lights (ADN) : 0

14.7. Maritime transport in bulk according to IMO instruments

Not established.

SECTION 15 : Regulatory information

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

15.1.1. EU-Regulations

Contains no substance with Annex XVII restrictions

Contains no substance on the REACH candidate list

Organic solvent

Contains no REACH Annex XIV substance

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

DIRECTIVE 2004/42/EC on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products

VOC content estimate : 516 g/l

European VOC content limit value (Directive: 2004/42/CE - Annex II-Part A)

15.1.2. National regulations

France

Code	Occupational diseases chart
RG 66	Occupational rhinitis and asthma
RG 84	Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamine; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide

N° ICPE	Classified Installations for the Protection of the Environment (ICPE) Désignation de la rubrique	Code Régime	Rayon
4331	4331 : Liquides inflammables de catégorie 2 ou catégorie 3 à l'exclusion de la rubrique 4330 (H225 ou H226)		

Germany

Water hazard class (WGK) : Not classified according to Regulation Governing Systems for Handling Substances Hazardous to Waters (AwSV)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Switzerland

Storage class (LK) : LK 3 - Flammable liquids

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : REGULATION (EC) 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), amending REGULATION (EC) 1907/2006 (REACh).

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Acute Not classified	Hazardous to the aquatic environment - Acute Hazard Not classified
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3

Full text of H- and EUH-statements:	
Aquatic Chronic Not classified	Hazardous to the aquatic environment - Chronic Hazard Not classified
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Carc. Not classified	Carcinogenicity Not classified
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
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.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Muta. Not classified	Germ cell mutagenicity Not classified
Resp. Sens. 1	Respiratory sensitisation, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.