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

1.1. Product identifier

Mixture identification:

Trade name: White PE SF long life Sealer

Trade code: **BE37C01**

UFI: M7KD-A0U8-N009-4N5C

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

Recommended use: Surface coating

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Company: Sirca S.p.A.

Viale Roma, 85

35010 Sandono di Massanzago (PD) - ITALY

Tel. +39 0499322311

Email: safety@sirca.it

1.4. Emergency telephone number

National Poisons Information Service - Medical Toxicology Unit - London - Tel. 0171/6359191

Scottish Poisons Information Bureau - The Royal Infirmary - Edinburgh - Tel. 01/315362298

Welsh National Poisons Unit - Ward West 5 - Llandough Hospital Penarth - Cardiff - Tel. 012/22709901

Poisons Information Centre - Royal Victoria Hospital - Belfast - Tel. 012/32240503

Poisons Information centre - Beaumont Hospital - Dublin - Tel. 0103531/8379964

CAV Policlinico "Umberto I". Roma V.le del Policlinico, 155 161 Telefono 06-49978000

Osp. Niguarda Ca' Granda. Milano Piazza Ospedale Maggiore,3 20162 Telefono 02-66101029

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 2	Highly flammable liquid and vapour.
Eye Dam. 1	Causes serious eye damage.
Skin Sens. 1A	May cause an allergic skin reaction.
STOT SE 3	May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.

H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/…
P370+P378	In case of fire: Use CO2, Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

Contains

ethyl acetate

n-butyl acetate

Oxybis(methyl-2,1-ethanediyl)diacrylate

maleic anhydride

2-hydroxyethyl methacrylate May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None.

2.3. Other hazards

No PBT Ingredients are present

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: White PE SF long life Sealer

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
7-9.9 %	ethyl acetate	CAS:141-78-6 EC:205-500-4 Index:607-022-00-5	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119475103-46-xxxx
7-9.9 %	n-butyl acetate	CAS:123-86-4 EC:204-658-1 Index:607-025-00-1	Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119485493-29-xxxx
3-5 %	Oxybis(methyl-2,1-ethanediyl)diacrylate	CAS:57472-68-1 EC:260-754-3	Eye Dam. 1, H318, H315; Skin Irrit. 2, H317; Skin Sens. 1	01-2119484629-21-xxxx
2.5-3 %	2-hydroxyethyl methacrylate	CAS:868-77-9 EC:212-782-2 Index:607-124-00-X	Eye Irrit. 2, H319, H315; Skin Irrit. 2; Skin Sens. 1, H317	01-2119490169-29-xxxx
1-2 %	butanone	CAS:78-93-3 EC:201-159-0 Index:606-002-00-3	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119457290-43-xxxx
1-2 %	sec-butyl acetate	CAS:110-19-0 EC:203-745-1 Index:607-026-00-7	Flam. Liq. 2, H225; STOT SE 3, H336, EUH066	01-2119488971-22-xxxx
0.0015-0.05 %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49-xxxx

0.0015-0.05 %	maleic anhydride	CAS:108-31-6 EC:203-571-6 Index:607-096-00-9	Acute Tox. 4, H302; STOT RE 1, H372; Skin Corr. 1B, H314; Eye Dam. 1, H318; Resp. Sens. 1, H334; Skin Sens. 1A, H317, EUH071	01-2119472428-31-xxxx
< 0.0015%	hydrocarbons, c10-c13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC:918-481-9	Asp. Tox. 1, H304, EUH066	01-2119457273-39-xxxx

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Remove contaminated clothing immediatley and dispose off safely.

In case of eyes contact:

Wash immediately and thoroughly with running water, keeping eyelids raised, for at least 10 minutes. Following this, protect the eyes with sterile gauze or a clean, dry, handkerchief. OBTAIN A MEDICAL EXAMINATION.

Do not use eyewash or ointment of any kind (before obtaining an examination or advice from an eye specialist).

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and label hazardous.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.Consult a doctor.

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

Eye damages

Skin Irritation

Contact a poisons centre

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

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire: Use CO2, Foam, Chemical powders For extinction.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

Cool the containers exposed to the fire with water.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non emergency personnel:

Wear personal protection equipment.

Remove all sources of ignition.

Collect the spilled product with no-sparking tools.

Remove persons to safety.

See protective measures under point 7 and 8.

For emergency responders:

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Eliminate all unguarded flames and possible sources of ignition. Do not smoke.

Collect spilled material with non-sparking equipment.

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from flame and sparks. Avoid accumulating electrostatic charge.

Place recipients on the ground whilst decanting, and wear anti-static clothing and shoes.

Avoid contact with skin and eyes, inhaltion of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

Do not smoke while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 30 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

No further recommendations. Refer to point 1.2

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

	OEL Type	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Notes
ethyl acetate CAS: 141-78-6	ACGIH	734	400	1468	400	
	EU		200			
butanone CAS: 78-93-3	EU	600	200	900	300	
	ACGIH	300	200	600	300	
acetone CAS: 67-64-1	EU	1210				
	ACGIH	300	250			
hydrocarbons, c10-c13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EU			1200		

Predicted No Effect Concentration (PNEC) values

	PNEC Limit	Exposure Route	Exposure Frequency	Remark
ethyl acetate CAS: 141-78-6	0,26 mg/l	Fresh Water		
	0,026 mg/l	Marine water		
	1,25 mg/kg	Freshwater sediments		

	0,125 mg/kg	Marine water sediments
	0,24 mg/kg	Soil (agricultural)
	200 mg/kg	orally (secondary poisoning)
	650 mg/l	STP
n-butyl acetate CAS: 123-86-4	0,18 mg/l	Fresh Water
	0,018 mg/l	Marine water
	0,981 mg/kg	Freshwater sediments
	0,098 mg/kg	Marine water sediments
	0,09 mg/kg	Soil (agricultural)
	35,6 mg/l	STP
Oxybis(methyl-2,1-ethanediyl)diacrylate CAS: 57472-68-1	0,00034 mg/l	Marine water
	0,0034 mg/l	Fresh Water
	0,00884 mg/kg	Freshwater sediments
	0,0013 mg/kg	Soil (agricultural)
	100 mg/l	Microorganisms in sewage treatments
2-hydroxyethyl methacrylate CAS: 868-77-9	0,482 mg/l	Fresh Water
	0,482 mg/l	Marine water
	10 mg/l	STP
	1 mg/l	occasional emission
	3,79 mg/kg	Freshwater sediments
	3,79 mg/kg	Marine water sediments
	0,476 mg/kg	
butanone CAS: 78-93-3	55,8 mg/l	Marine water
	55,8 mg/l	Fresh Water
	55,8 mg/l	occasional emission
	709 mg/l	STP
	284,7 mg/kg dwt	Freshwater sediments
	284,7 mg/kg dwt	Marine water sediments
	22,5 mg/kg	Soil (agricultural)
	1000 mg/kg	orally (secondary poisoning)
sec-butyl acetate CAS: 110-19-0	0,17 mg/l	Fresh Water
	0,017 mg/l	Marine water
	0,877 mg/kg	Freshwater sediments
	0,088 mg/kg	Marine water sediments
	0,076 mg/kg	Soil (agricultural)
acetone CAS: 67-64-1	1,06 mg/l	Marine water
	3,04 mg/l	Marine water sediments
	30,4 mg/l	Fresh Water
	29,5 mg/kg	Soil (agricultural)
	30,4 mg/kg	Freshwater sediments
maleic anhydride CAS: 108-31-6	0,043 mg/l	Fresh Water
	0,004 mg/l	Marine water
	0,334 mg/kg	Freshwater sediments
	0,033 mg/kg	Marine water sediments

0,042 mg/kg	Soil (agricultural)
0,428 mg/l	occasional emission
44,6 mg/l	STP

Derived No Effect Level (DNEL) values

	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
ethyl acetate CAS: 141-78-6	1468 mg/m3		734 mg/m3	Human Inhalation	Short Term, systemic effects	
	1468 ppm			Human Inhalation	Short Term (acute)	
	63 mg/Kg-bw/day			Human Dermal	Long Term, systemic effects	
	734 mg/m3			Human Inhalation	Long Term, local effects	
	734 mg/m3			Human Inhalation	Long Term, systemic effects	
			4,5 mg/Kg-bw/day	Human Oral	Long Term, systemic effects	
			734 mg/m3	Human Inhalation	Short Term (acute)	
			734 mg/m3	Human Inhalation	Long Term, systemic effects	
			37 mg/Kg-bw/day	Human Dermal	Long Term, local effects	
			367 mg/m3	Human Inhalation	Short Term, local effects	
			367 mg/m3	Human Inhalation	Long Term, systemic effects	
n-butyl acetate CAS: 123-86-4		600 mg/m3		Human Inhalation	Short Term, local effects	
		300 mg/m3		Human Inhalation	Long Term, local effects	
		11 mg/kg		Human Dermal	Long Term, systemic effects	
		11 mg/kg		Human Dermal	Short Term, systemic effects	
			300 mg/kg	Human Inhalation	Short Term, local effects	
			35,7 mg/m3	Human Inhalation	Long Term, local effects	
			6 mg/kg	Human Dermal	Short Term, systemic effects	
			2 mg/kg	Human Oral	Long Term, systemic effects	
			2 mg/kg	Human Oral	Short Term, systemic effects	
Oxybis(methyl-2,1-ethanediyl) diacrylate CAS: 57472-68-1	2,77 mg/kg			Human Dermal	Long Term, systemic effects	
	24,48 mg/m3			Human Inhalation	Long Term, systemic effects	
				Human Oral	Long Term, systemic effects	
		1,66 mg/kg		Human Dermal	Long Term, systemic effects	
		7,24 mg/kg		Human Inhalation	Long Term, systemic effects	
		2,08 mg/kg		Human Oral	Long Term, systemic effects	
2-hydroxyethyl methacrylate CAS: 868-77-9	1,3 mg/kg			Human Dermal	Long Term, systemic effects	
	4,9 mg/m3			Human Inhalation	Long Term, systemic effects	
			0,83 mg/cm2	Human Dermal	Long Term, systemic effects	
			2,9 mg/m3	Human Inhalation	Long Term, systemic effects	
			0,83 mg/Kg-bw/day	Human Oral	Long Term, systemic effects	
butanone CAS: 78-93-3	1161 mg/Kg-bw/day			Human Dermal	Long Term, systemic effects	
	600 mg/m3			Human Inhalation	Long Term, systemic effects	
			412 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects	
			106 mg/m3	Human Inhalation	Long Term, systemic effects	
			31 mg/Kg-	Human Oral	Long Term, systemic effects	

			bw/day		
sec-butyl acetate CAS: 110-19-0	4,95 mg/Kg-bw/day		2,48 mg/Kg-bw/day	Human Dermal	Long Term, systemic effects
	243 mg/m3		60,3 mg/m3	Human Inhalation	Long Term, systemic effects
			2,48 mg/Kg-bw/day	Human Oral	Long Term, systemic effects
acetone CAS: 67-64-1		186 mg/kg/day		Human Dermal	Long Term, systemic effects
		2420 mg/m3		Human Inhalation	Short Term (acute)
		1210 mg/m3		Human Inhalation	Long Term, systemic effects
maleic anhydride CAS: 108-31-6	0,8 mg/m3			Human Inhalation	Short Term, local effects
	0,4 mg/m3			Human Inhalation	Long Term, local effects
	0,04 mg/cm2			Human Dermal	Short Term, local effects
	0,04 mg/cm2			Human Dermal	Long Term, local effects
	0,8 mg/m3			Human Inhalation	Short Term, systemic effects
	0,4 mg/m3			Human Inhalation	Long Term, systemic effects

8.2. Exposure controls

Eye protection:

Use eye protection devices. Example: closed safety visors, goggles with side protection. Do not wear contact lenses.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Due to the synergistic effect of the substances contained in the formulation it is not possible to identify a single material capable of resisting their combination. Multilayer protective gloves for mixtures of substances may be suitable. Always refer to the protection degree and permeation rate data provided by the glove manufacturer with regard to the substances listed in point 3 of this sheet.

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

Use adequate protective respiratory equipment, e.g. A2 or A2P2 or A2P3.

Thermal Hazards:

N.A.

Environmental exposure controls:

None known

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State Liquid

Appearance and colour: Liquid white

Odour: characteristic

Odour threshold: N.A.

pH: Not Relevant

Melting point / freezing point: > 1 °C / < 0 °C

Initial boiling point and boiling range: > 55 °C

Flash point: < 23°C

Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.43 kg/l

Solubility in water: N.A.

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: 250 °C

Decomposition temperature: N.A.

Viscosity: 25.00 s (" Din cup # 8)

Explosive properties: N.A.

Oxidizing properties: N.A.

Solid/gas flammability: N.A.

9.2. Other information

Substance Groups relevant properties N.A.

Miscibility: N.A.

Conductivity: N.A.

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

None.

10.4. Conditions to avoid

Avoid accumulating electrostatic charge.

Vapours can form explosive mixtures with air.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

vapours potentially dangerous to health may be released.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information of the Preparation

a) acute toxicity	Not classified
	Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified
	Based on available data, the classification criteria are not met
c) serious eye damage/irritation	The product is classified: Eye Dam. 1(H318)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)
e) germ cell mutagenicity	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) STOT-single exposure	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified
	Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

ethyl acetate	a) acute toxicity	LD50 Skin Rabbit > 20000 mg/kg	
		LD50 Oral Rat = 5620 mg/kg	
		LC50 Inhalation Rat > 29,3 mg/l 4h	
		LD50 Oral Rabbit = 4934 mg/kg body weight	
	b) skin corrosion/irritation	Skin Irritant Skin Rabbit Negative	
	e) germ cell mutagenicity	Genotoxicity Negative	
	j) aspiration hazard	Respiratory Tract Corrosive Inhalation Positive	
n-butyl acetate	a) acute toxicity	LC50 Inhalation Rat > 21 mg/l 4h	
		LD50 Oral Rat = 10736 mg/kg	Method OECD linee guide 402
		LD50 Skin Rabbit > 14000 mg/kg	

Oxybis(methyl-2,1-ethanediyl)diacrylate	a) acute toxicity	LC50 Oral Rat 3530 mg/kg	
		LC50 Skin Rabbit > 2000 mg/kg	
		LC50 Oral Rat Female 2810 mg/kg	
		LC50 Oral Rat male 4270 mg/kg	
	b) skin corrosion/irritation	Eye Irritant Positive	
		Skin Irritant Positive	
2-hydroxyethyl methacrylate	a) acute toxicity	LD50 Oral > 5000 mg/kg body weight	
		LD50 Skin > 5000 mg/kg body weight	
	b) skin corrosion/irritation	Skin Corrosive Negative	
	c) serious eye damage/irritation	Eye Irritant Positive	
	d) respiratory or skin sensitisation	Skin Sensitization Positive	
	f) carcinogenicity	Carcinogeneticy Negative	
	g) reproductive toxicity	Reproductive Toxicity Negative	
butanone	a) acute toxicity	LD50 Oral Rat = 2737 mg/kg	
		LD50 Skin Rabbit = 6480 mg/kg	
		LC50 Inhalation Rat = 23,5 mg/l 8h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative	moderatamente irritante
sec-butyl acetate	a) acute toxicity	LD50 Oral Rat 13413 mg/kg	
		LD50 Skin Rabbit > 17400 mg/kg	
		LC50 Inhalation Rat > 30 mg/l 6h	
acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg	
		LD50 Skin Rabbit = 7800 mg/kg	
		LC50 Inhalation Rat 50100 mg/m3 8h	
	b) skin corrosion/irritation	Eye Irritant Yes	
		Skin Irritant Skin Yes	Il contatto ripetuto può causare dermatiti
maleic anhydride	a) acute toxicity	LD50 Oral Rat = 1090 mg/kg body weight	
		LD50 Skin Rabbit = 2620 mg/kg body weight	
		LD50 Inhalation Rat = 4,35 mg/l 1h	

Based on the properties of the epoxy contituent(s) and considering toxicological data on similar preparations, this preparetion may be a skin sensitiser and an irritant.

It contains low molecular epoxy constituents which are irritating to eyes, mucous me

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
ethyl acetate	CAS: 141-78-6 - EINECS: 205-500-4 - INDEX:	a) Aquatic acute toxicity : LC50 Fish = 454,7 mg/l 96

	607-022-00-5	
		a) Aquatic acute toxicity : EC50 Daphnia = 154 mg/l 48
		a) Aquatic acute toxicity : EC50 Algae = 3300 mg/l 48
		b) Aquatic chronic toxicity : NOEC Algae > 100 mg/l 72
n-butyl acetate	CAS: 123-86-4 - EINECS: 204-658-1 - INDEX: 607-025-00-1	a) Aquatic acute toxicity : LC50 Fish = 64 mg/l 48
		a) Aquatic acute toxicity : EC50 Daphnia = 73 mg/l 24
		a) Aquatic acute toxicity : EC50 Algae = 674 mg/l 72
Oxybis(methyl-2,1-ethanediyl)diacrylate	CAS: 57472-68-1 - EINECS: 260-754-3	a) Aquatic acute toxicity : EC50 Algae = 16,7 mg/l 72
		a) Aquatic acute toxicity : LC50 Fish = 2,2 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia = 22,3 mg/l 48
2-hydroxyethyl methacrylate	CAS: 868-77-9 - EINECS: 212-782-2 - INDEX: 607-124-00-X	a) Aquatic acute toxicity : LC50 Fish > 100 mg/l 96 - OCSE n. 203
		a) Aquatic acute toxicity : EC50 Daphnia = 380 mg/l 48 - OECD 202
		a) Aquatic acute toxicity : EC50 Algae = 836 mg/l 72 - OECD 201 / DIN38412 -2
butanone	CAS: 78-93-3 - EINECS: 201-159-0 - INDEX: 606-002-00-3	a) Aquatic acute toxicity : LC50 Fish > 3220 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia > 520 mg/l 48
sec-butyl acetate	CAS: 110-19-0 - EINECS: 203-745-1 - INDEX: 607-026-00-7	a) Aquatic acute toxicity : LC50 Fish = 17 mg/l 96
		a) Aquatic acute toxicity : EC50 Daphnia = 25 mg/l 48
		a) Aquatic acute toxicity : LC50 Algae = 370 mg/l 72
		b) Aquatic chronic toxicity : NOEC Daphnia = 23 mg/l 504
		c) Bacteria toxicity : EC50 Active mud = 1886 mg/l 6
acetone	CAS: 67-64-1 - EINECS: 200-662-2 - INDEX: 606-001-00-8	a) Aquatic acute toxicity : EC50 Daphnia = 8800 mg/kg
		b) Aquatic chronic toxicity : EC50 Fish = 6070 mg/l 96
		b) Aquatic chronic toxicity : NOEC Fish 6070 mg/l 96
maleic anhydride	CAS: 108-31-6 - EINECS: 203-571-6 - INDEX: 607-096-00-9	a) Aquatic acute toxicity : LC50 Fish = 75 mg/l 96
		a) Aquatic acute toxicity : LC0 Fish = 115 mg/l 48
		a) Aquatic acute toxicity : EC50 Algae = 29 mg/l 72
		a) Aquatic acute toxicity : EC50 Daphnia = 84 mg/l 24
		a) Aquatic acute toxicity : EC50 Daphnia 42,8 mg/l 48
		a) Aquatic acute toxicity : EC0 Eisenia foetica 44,6 mg/l 17

12.2. Persistence and degradability

None known

N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

SECTION 14: Transport information

14.1. UN number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: II

IATA-Packing group: II

IMDG-Packing group: II

14.5. Environmental hazards

Toxic Ingredients Qty: 0.00

High Toxicity Ingredients Qty: 0.00

Marine pollutant: No

Environmental Pollutant: No

14.6. Special precautions for user

Road and Rail (ADR-RID) :

ADR exempt: No

ADR-Label: 3

ADR - Hazard identification number: 33

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA) :

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisioning: A3 A72 A192

Sea (IMDG) :

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 163 367

IMDG-Page: N/A

IMDG-Label: N/A

IMDG-MFAG: N/A

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/699 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) 2015/830
Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40 3, 40

Restrictions related to the substances contained: 28, 29, 75 28, 29, 75

Provisions related to directive EU 2012/18 (Seveso III):

N.A.

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 3: extremely hazardous.

SVHC Substances:

No data available

Dir. 2010/75/EC (VOC directive) ; Dir. 2004/42/EC (VOC directive)

Total solid content: 78.83 %

Volatile Organic compounds - VOCs = 21.10 %

Volatile Organic compounds - VOCs = 301.70 g/L

Of which reactive monomers: 0.03 %

Total Volatile Organic Carbon (typical value): 12.48 %

Of which reactive monomers: 0.02 %

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1

3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1A	Skin Sens. 1A	Skin Sensitisation, Category 1A
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
2.6/2	On basis of test data
3.3/1	Calculation method
3.4.2/1A	Calculation method
3.8/3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KAFH: KAFH

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low

N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

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Fac-simile label

White PE SF long life Sealer

Regulation (EC) No 1272/2008 (CLP):

Pictograms and Signal Words

Danger

Hazard statements

H225	Highly flammable liquid and vapour.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor/…
P370+P378	In case of fire: Use CO2, Foam, Chemical powders For extinction.
P403+P235	Store in a well-ventilated place. Keep cool.

Contains

ethyl acetate

n-butyl acetate

Oxybis(methyl-2,1-ethanediyl)diacrylate

maleic anhydride

2-hydroxyethyl methacrylate May produce an allergic reaction.

QUANTITY: **SUPPLIER:**