Safety Data Sheet

Conforms to – Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by UK SI 2021/904 FUGALITE COLOR UK PART A

Date of first edition: 14/05/2025

Safety Data Sheet dated 14/05/2025 version 1

kerakoll

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

1.1. Product identifier

Mixture identification: Trade name: FUGALITE COLOR UK PART A Trade code: FO000704

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

Recommended use: N.A.

Uses advised against: N.A.

1.3. Details of the supplier of the safety data sheet

Kerakoll UK Ltd Tomlinson Road, Leyland, Lancashire, PR25 2DY, United Kingdom Tel. 01772 456831 safety@kerakoll.co.uk

1.4. Emergency telephone number

UK National Poisons Information Service. E-mail: npis.birmingham@nhs.net; Tel: +44 (0)344 892 0111

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

GB CLP regulation:

Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Skin Sens. 1A	May cause an allergic skin reaction.
Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.
GB\$DECL10	This titanium dioxide-containing product is not classified as carcinogen by inhalation because it does not meet the criteria stated in Note 10, Annex VI of GB CLP Regulation.

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 \leq 10 µm.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

GB CLP regulation:

Hazard pictograms and Signal Word



Hazard statements

- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H319 Causes serious eye irritation.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

- P264 Wash hands thoroughly after handling.
- P273 Avoid release to the environment.
- P280 Wear protective gloves and eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P305+P351+P33 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P501 Dispose of contents/container in accordance with applicable regulations.

Contains

1-Methyl 1,2,2,6,6-pentamethylpiperidin-4yl decanedioate bis(1,2,2,6,6pentamethylpiperidin-4-yl) decanedioate

bis-[4-(2,3-epoxipropoxi)phenyl]propane

p-tert-butylphenyl 1-(2,3-epoxy)propyl ether

Special provisions according to Annex XVII of UK REACH:

None.

2.3. Other hazards

When mixtures containing cement react with water, for instance when making concrete or mortar, or when the cement becomes wet, a strong alkaline solution is produced (high pH caused by the formation of calcium, sodium and potassium hydroxides).

Cement and mixtures containing cement may irritate the eyes, the mucous system, the throat and the respiratory system and cause coughing. Frequent inhalation of cement dust or mixtures containing cement over a long period of time increases the risk of developing lung diseases.

In case of prolonged contact with the skin, both cement and mixtures containing cement, including pastes, may cause skin sensitisation due to the presence of trace amounts of chromium VI salts. Where necessary, such an effect can be minimized by incorporating a special reducing agent to maintain the water-soluble chromium VI content to concentration rates below 0.0002% (2 ppm) on the total dry weight of cement.

No PBT or vPvB substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: FUGALITE COLOR UK PART A

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

Qty	Name	Ident. Numb.	Classification	Registration Number
≥10-<20 %	bis-[4-(2,3- epoxipropoxi)phenyl]propane	CAS:1675-54-3 EC:216-823-5 Index:603-073-00-2	Eye Irrit. 2, H319; Skin Irrit. 2, H315; Skin Sens. 1, H317; Aquatic Chronic 2, H411	
≥5-<10 %	p-tert-butylphenyl 1-(2,3- epoxy)propyl ether	CAS:3101-60-8 EC:221-453-2	Skin Sens. 1, H317; Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
≥1-<3 %	TITANIUM DIOXIDE	CAS:13463-67-7 EC:236-675-5 Index:022-006-00-2	Carc. 2, H351	
≥0.5-<1 %	1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate	CAS:1065336-91-5 EC:915-687-0	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Repr. 2, H361; Skin Sens. 1A, H317	
≥0.05-<0.1 %	ALUMINIUM OXIDE	CAS:1344-28-1 EC:215-691-6	Substance with a workplace exposure limit in Great Britain.	
<0.036 %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Eye Irrit. 2, H319	
<0.01 %	phosphoric acid	CAS:7664-38-2 EC:231-633-2	Skin Corr. 1B, H314	

CAS:140-88-5

EC:205-438-8

<0.0015 % methanol

CAS:67-56-1 Flam. Liq. 2, H225; STOT SE 1, EC:200-659-6 H370; Acute Tox. 3, H301; Acute Index:603-001-00-X Tox. 3, H311; Acute Tox. 3, H331

Index:607-032-00-X Irrit. 2, H315; Skin Sens. 1, H317;

Flam. Liq. 2, H225; Eye Irrit. 2,

Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332

H319; STOT SE 3, H335; Skin

This mixture contains >= 1% titanium dioxide (CAS 13463-67-7). The Annex VI classification of titanium dioxide does not apply to this mixture according to its Note 10.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Remove contaminated clothing immediatley and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

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.

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

Eye irritation

Eye damages

Skin Irritation

Erythema

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:

Water.

Carbon dioxide (CO2).

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.

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 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

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

Avoid contact with skin and eyes, inhalation of vapours and mists. See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

The product must be stored in waterproof, dry, clean conditions and protected from contamination. Do not use aluminium containers due to incompatibility of the materials.

The product contains cement with an addition of a Chromium reducing agent (VI) and its effectiveness decreases with time. Consequently, packaging's of the material indicate information about the production date, storing conditions and the appropriate storage period for the maintaining of the activity of the reducing agent and for maintaining the soluble Chromium (VI) amount under 2ppm over the total dry weight referred to cement (BS EN 196-10).

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

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	Country	Occupational Exposure Limit
TITANIUM DIOXIDE CAS: 13463-67-7	ACGIH		Long Term: 2.5 mg/m3 (8h) Finescale particles; R ; A3 - LRT irr, pneumoconiosis
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
ALUMINIUM OXIDE CAS: 1344-28-1	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 10 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 4 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
xylene CAS: 1330-20-7	ACGIH		Long Term: 20 ppm (8h) A4, BEI - URT and eye irr; hematologic eff; CNS impair
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 220 mg/m3 - 50 ppm; Short Term: 441 mg/m3 - 100 ppm Sk, BMGV Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)

phosphoric acid CAS: 7664-38-2	ACGIH		Long Term: 1 mg/m3 (8h); Short Term: 3 mg/m3 URT, eye and skin irr
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 1 mg/m3; Short Term: 2 mg/m3 Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
ethyl acrylate CAS: 140-88-5	ACGIH		Long Term: 5 ppm (8h); Short Term: 15 ppm A4 - URT, eye, and GI irr, CNS impair, skin sens
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 21 mg/m3 - 5 ppm; Short Term: 42 mg/m3 - 10 ppm Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
methanol CAS: 67-56-1	ACGIH		Long Term: 200 ppm (8h); Short Term: 250 ppm Skin, BEI - Headache, eye dam, dizziness, nausea
	WEL-EH40	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	Long Term: 266 mg/m3 - 200 ppm; Short Term: 333 mg/m3 - 250 ppm Sk Source: EH40/2005 Workplace exposure limits (Fourth Edition 2020)
Biological limit values			
ALUMINIUM OXIDE CAS: 1344-28-1	Biological Indica Value: 60 µg/g	ator: Aluminiu ; Medium: Urir	m; Sampling Period: At discretion ne
xylene CAS: 1330-20-7	Biological Indica Value: 2000 mg	ator: Methyl hi g/L; Medium: l	ppuric acid in urine; Sampling Period: End of turn Jrine
methanol CAS: 67-56-1	Biological Indica Value: 30 mg/L	ator: Methyl al .; Medium: Uri	cohol; Sampling Period: End of turn; End of working week ne
Predicted No Effect Con	centration (PN	IEC) values	
bis-[4-(2,3- epoxipropoxi)phenyl] propane CAS: 1675-54-3	Exposure Route	e: Fresh Water	; PNEC Limit: 0.006 mg/l
	Exposure Route	e: Marine wate	r; PNEC Limit: 600 ng/L
	Exposure Route	: Freshwater s	sediments; PNEC Limit: 0.996 mg/kg
	Exposure Route	e: Marine wate	r sediments; PNEC Limit: 0.099 mg/kg
	Exposure Route	e: Soil; PNEC L	imit: 0.196 mg/kg
	Exposure Route	e: Microorganis	ms in sewage treatments; PNEC Limit: 10 mg/l
	Exposure Route	: Intermittent	releases (fresh water); PNEC Limit: 0.018 mg/l
TITANIUM DIOXIDE CAS: 13463-67-7	Exposure Route	e: Fresh Water	; PNEC Limit: 0.184 mg/l
	Exposure Route	e: Marine wate	r; PNEC Limit: 0.018 mg/l
	Exposure Route	: Intermittent	releases (fresh water); PNEC Limit: 1 mg/kg
	Exposure Route	: Intermittent	releases (marine water); PNEC Limit: 100 mg/kg
	Exposure Route	e: Microorganis	ms in sewage treatments; PNEC Limit: 100 mg/kg
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4- yl) decanedioate CAS: 1065336-91-5	Exposure Route	e: ⊦resh Water	; PNEC LIMIT: 2.2 µg/I
	Exposure Route	: Intermittent	releases (fresh water); PNEC Limit: 9 µg/l
	Exposure Route	e: Marine wate	r; PNEC Limit: 220 ng/L
	Exposure Route	e: Microorganis	ms in sewage treatments; PNEC Limit: 1 mg/l
	⊏xposure Koute	e: Freshwater s	seaments; PNEC LIMIT: 1.05 Mg/Kg
D.L. 14/05/0005	District and a Million		

	Exposure Route: Marine water sediments; PNEC Limit: 110 µg/kg
	Exposure Route: Soil; PNEC Limit: 210 µg/kg
ALUMINIUM OXIDE CAS: 1344-28-1	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 20 mg/l Remark: Sewage treatment plant (STP)
xylene CAS: 1330-20-7	Exposure Route: Fresh Water; PNEC Limit: 327 µg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 327 µg/l
	Exposure Route: Marine water; PNEC Limit: 327 µg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 6.58 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 12.46 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 12.46 mg/kg
	Exposure Route: Soil; PNEC Limit: 2.31 mg/kg
ethyl acrylate CAS: 140-88-5	Exposure Route: Fresh Water; PNEC Limit: 2.72 µg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 11 μ g/l
	Exposure Route: Marine water; PNEC Limit: 270 ng/L
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 10 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 21.3 μ g/kg
	Exposure Route: Marine water sediments; PNEC Limit: 21.3 μ g/kg
	Exposure Route: Soil; PNEC Limit: 1 mg/kg
	Exposure Route: Secondary poisoning; PNEC Limit: 10 mg/kg
methanol CAS: 67-56-1	Exposure Route: Fresh Water; PNEC Limit: 20.8 mg/l
	Exposure Route: Intermittent releases (fresh water); PNEC Limit: 1540 mg/l
	Exposure Route: Marine water; PNEC Limit: 2.08 mg/l
	Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l
	Exposure Route: Freshwater sediments; PNEC Limit: 77 mg/kg
	Exposure Route: Marine water sediments; PNEC Limit: 7.7 mg/kg
	Exposure Route: Soil; PNEC Limit: 100 mg/kg
Derived No Effect Level	(DNEL) values
bis-[4-(2,3- epoxipropoxi)phenyl] propane CAS: 1675-54-3	Exposure Route: Human Oral; Exposure Frequency: Long Term, local effects Worker Professional: 0.75 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Worker Professional: 0.75 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 3.571 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, local effects Worker Professional: 3.571 mg/kg
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 12.25 $\rm mg/m^3$
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 12.25 mg/m ³
TITANIUM DIOXIDE CAS: 13463-67-7	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 10 mg/m ³
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4- yl) decanedioate CAS: 1065336-91-5	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 680 $\mu g/m^3$; Consumer: 170 $\mu g/m^3$
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 500 μg/kg; Consumer: 250 μg/kg

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

	Consumer: 50 µg/kg
ALUMINIUM OXIDE CAS: 1344-28-1	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 15.63 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 15.63 mg/m ³
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 3.29 mg/kg
xylene CAS: 1330-20-7	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 221 mg/m ³ ; Consumer: 65.3 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 442 mg/m ³ ; Consumer: 260 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 221 mg/m ³ ; Consumer: 65.3 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 442 mg/m³; Consumer: 260 mg/m³
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 212 mg/kg; Consumer: 125 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 12.5 mg/kg
phosphoric acid CAS: 7664-38-2	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 10.7 mg/m ³ ; Consumer: 4.57 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 1 mg/m ³ ; Consumer: 360 μ g/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 2 mg/m ³
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 100 µg/kg
ethyl acrylate CAS: 140-88-5	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 21 mg/m ³ ; Consumer: 2.5 mg/m ³
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, local effects Worker Professional: 0.92 mg/cm ² ; Consumer: 0.92 mg/cm ²
methanol CAS: 67-56-1	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects Worker Professional: 130 mg/m ³ ; Consumer: 26 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects Worker Professional: 130 mg/m ³ ; Consumer: 26 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Long Term, local effects Worker Professional: 130 mg/m ³ ; Consumer: 26 mg/m ³
	Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects Worker Professional: 130 mg/m ³ ; Consumer: 26 mg/m ³
	Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects Worker Professional: 20 mg/kg; Consumer: 4 mg/kg
	Exposure Route: Human Dermal; Exposure Frequency: Short Term, systemic effects Worker Professional: 20 mg/kg; Consumer: 4 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects Consumer: 4 mg/kg
	Exposure Route: Human Oral; Exposure Frequency: Short Term, systemic effects Consumer: 4 mg/kg
8.2. Exposure controls	
Eye protection:	
Use close fitting	safety goggles, don't use contact lenses.

Protection for skin:

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

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

N.A. Thermal Hazards: N.A. Environmental exposure controls: N.A. Hygienic and Technical measures N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: N.A. Appearance and colour: N.A. Odour: N.A. Odour threshold: N.A. pH: N.A. Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A. Flash point: > 93°C Evaporation rate: N.A. Upper/lower flammability or explosive limits: N.A. Vapour density: N.A. Vapour pressure: N.A. Relative density: N.A. Solubility in water: N.A. Solubility in oil: N.A. Partition coefficient (n-octanol/water): N.A. Auto-ignition temperature: N.A. Decomposition temperature: N.A. Viscosity: N.A. Explosive properties: N.A. Oxidizing properties: N.A. Solid/gas flammability: N.A. Volatile Organic compounds - VOCs = 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

Data not available.

10.3. Possibility of hazardous reactions None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

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	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
d) respiratory or skin sensitisation	The product is classified: Skin Sens. 1A(H317)

e) germ cell muta	agenicity I	Not class	sified		
	I	Based or	n available data, the classification criteria are not me	I	
f) carcinogenicity	1	Not class	sified		
	I	Based or	n available data, the classification criteria are not me	I	
g) reproductive to	oxicity I	Not class	sified		
	I	Based or	n available data, the classification criteria are not me	t	
h) STOT-single ex	xposure I	Not class	sified		
	I	Based or	n available data, the classification criteria are not me	I	
i) STOT-repeated	exposure I	Not class	sified		
	I	Based or	n available data, the classification criteria are not me	t	
j) aspiration haza	ard I	Not class	sified		
	I	Based on available data, the classification criteria are not met			
Toxicological information	on on main compo	onents	of the mixture:		
bis-[4-(2,3- epoxipropoxi)phenyl] propane	a) acute toxicity		LD50 Oral Rabbit = 19800 mg/kg		
			LD50 Skin Rabbit > 20 mg/kg 24h		
	b) skin corrosion/i	rritation	Skin Irritant Rabbit Positive	epoxy resin with an avera- molecular mass <= 700 d irritate skin of rabbits	
	c) serious eye damage/irritation		Eye Irritant Rabbit Yes		
	d) respiratory or s sensitisation	kin	Skin Sensitization Positive	Mouse	
	f) carcinogenicity		Genotoxicity Negative	Mouse, oral	
			Carcinogenicity Oral Rat = 15 mg/kg	NOAEL	
			Carcinogenicity Skin Rat = 1 mg/kg	NOAEL	
	g) reproductive to:	xicity	No Observed Effect Level Oral Rat = 750 mg/kg		
p-tert-butylphenyl 1-(2,3- epoxy)propyl ether	a) acute toxicity		LD50 Oral Rat > 2000 mg/kg		
			LD50 Skin Rat > 2000 mg/kg 24h		
	c) serious eye damage/irritation		Eye Irritant Rabbit No		
	d) respiratory or s sensitisation	kin	Skin Sensitization Positive	Mouse	
	f) carcinogenicity		Genotoxicity Rat Negative		
	g) reproductive to:	xicity	No Observed Adverse Effect Level Oral Rat = 100 mg/kg		
titanium dioxide	a) acute toxicity		LD50 Oral Rat > 5000 mg/kg		
			LC50 Inhalation > 6.82 mg/l		
	d) respiratory or s sensitisation	kin	Skin Sensitization Negative		
	i) STOT-repeated exposure		No Observed Adverse Effect Level 1000		
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4- yl) decanedioate	a) acute toxicity		LD50 Oral Rat = 3230 mg/kg		
			LD50 Skin Rat > 3170 mg/kg		
	b) skin corrosion/i	rritation	Skin Irritant Rabbit Negative 24h		
	c) serious eye		Eye Irritant Rabbit No		

	damage/irritation		
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Positive	
	f) carcinogenicity	Genotoxicity Negative	Mouse oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 30 mg/kg	
ALUMINIUM OXIDE	a) acute toxicity	LD50 Oral Rat > 15900 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity Rat Negative	
	g) reproductive toxicity	Lowest Observed Adverse Effect Level Oral Rat = 100 mg/kg	
xylene	a) acute toxicity	LD50 Oral Rat = 3523 ml/Kg	
		LC50 Inhalation Vapour Rat = 29000 mg/m3 4h	
		LD50 Skin Rabbit = 12126 mg/kg 24h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 1h	
	f) carcinogenicity	Genotoxicity Negative	Mouse subcutaneous route
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 2171 mg/kg	
phosphoric acid	a) acute toxicity	LD50 Oral Rat = 2600 mg/kg	
		LC50 Inhalation Rat = 3846 mg/m3 1h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Positive	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat \geq 500 mg/kg	
ethyl acrylate	a) acute toxicity	LD50 Oral Rat = 1120 ml/Kg	
		LC50 Inhalation Vapour Rat < 9.13 mg/l 4h	
		LD50 Skin Rat = 3049 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 72h	
	d) respiratory or skin sensitisation	Skin Sensitization Positive	Mouse
	f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal rout
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 110 mg/kg	
methanol	a) acute toxicity	LD50 Oral Rat >= 2528 mg/kg	
		LC50 Inhalation = 43.68 mg/l 6h	Cat
		LD50 Skin Rabbit = 17100 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Kaddit No	

d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal rout
	Carcinogenicity Rat Negative	
g) reproductive toxicity	Lowest Observed Adverse Effect Level Oral = 1000 mg/kg	Mouse

SECTION 12: Ecological information

12.1. Toxicity

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

Eco-Toxicological Information:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
bis-[4-(2,3- epoxipropoxi)phenyl]propane	CAS: 1675-54-3 - EINECS: 216- 823-5 - INDEX: 603-073-00-2	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 2 mg/L 96h
		a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 1.8 mg/L 48h
		a) Aquatic acute toxicity : EC50 Algae Scenedesmus capricornutum = 11 mg/L 72h EPA-660/3-75-009
		c) Bacteria toxicity : EC50 Sludge activated sludge = 100 mg/L 3h
p-tert-butylphenyl 1-(2,3- epoxy)propyl ether	CAS: 3101-60-8 - EINECS: 221- 453-2	a) Aquatic acute toxicity : LC50 Fish rainbow trout = 7.5 mg/L ,,OECD Guideline 203 (Fish, Acute Toxicity Test)
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 67.9 mg/L 48h OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
		a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata = 9 mg/L 72h ,,OECD Guideline 201 (Alga, Growth Inhibition Test)
		a) Aquatic acute toxicity: EC50 Sludge activated sludge > 1000 mg/L 3h ,,OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test
titanium dioxide	CAS: 13463-67- 7 - EINECS: 236-675-5 - INDEX: 022- 006-00-2	a) Aquatic acute toxicity : LC50 Fish Pimephales promelas (Cavedano americano) > 1000 mg/L 96h
		a) Aquatic acute toxicity: EC50 Algae Pseudokirchneriella subcapitata (alghe cloroficee) > 100 mg/L 72h
		a) Aquatic acute toxicity : NOEC Algae = 5600 mg/L
		a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna (Pulce d'acqua grande) > 100 mg/L 48h
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate	CAS: 1065336- 91-5 - EINECS: 915-687-0	a) Aquatic acute toxicity : LC50 Fish Danio rerio = 0.9 mg/L 96h OECD Guideline 203
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 1 mg/L OECD guideline 211
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus = 1.68 mg/L 72h OECD Guideline 201
		a) Aquatic acute toxicity : EC20 Sludge activated sludge >= 100 mg/L 3h OECD guideline 209
xylene	CAS: 1330-20-7 - EINECS: 215- 535-7 - INDEX:	a) Aquatic acute toxicity: LC50 Fish freshwater fish = 2.6 mg/L 96h OECD 203

		b) Aquatic chronic toxicity : NOEC Fish freshwater fish = $1.3 \text{ mg/L} - 56 \text{days}$
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1 mg/L 24h OECD 202
		b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 0.96 mg/L $$ -7days
		a) Aquatic acute toxicity : EC50 Algae freshwater algae = $1.3 \text{ mg/L} 48h \text{ OECD} 201$
		a) Aquatic acute toxicity: EC50 microorganisms = 96 mg/L OECD 301F
		d) Terrestrial toxicity : NOEC Worm earthworms = 16 mg/kg - 14days
		e) Plant toxicity : LC50 terrestrial plants = 1 mg/kg - 14days
phosphoric acid	CAS: 7664-38-2 - EINECS: 231- 633-2 - INDEX: 015-011-00-6	a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna > 100 mg/L 48h ,,OECD TG 202, static, Klimisch reliability 1
		a) Aquatic acute toxicity : EC50 Algae Desmodesmus subspicatus > 100 mg/L 72h ,,OECD TG 201, static, Klimisch reliabilty 1
		a) Aquatic acute toxicity: EC50 Sludge activated sludge > 1000 mg/L 3h ,,OECD TG 209, static, Klimisch reliability 1
ethyl acrylate	CAS: 140-88-5 - EINECS: 205- 438-8 - INDEX: 607-032-00-X	a) Aquatic acute toxicity : LC50 Fish Salmo gairdneri = 4.6 mg/L 96h EPA OTS 797.1400
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 7.9 mg/L 48h EPA OTS 797.1300
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 0.19 mg/L EPA OTS 797.1330
		a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 4.5 mg/L 72h OECD TG 201
		a) Aquatic acute toxicity : NOEC Sludge activated sludge = 100 mg/L
methanol	CAS: 67-56-1 - EINECS: 200- 659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 15400 mg/L 96h
		b) Aquatic chronic toxicity: NOEC Fish = 450 mg/L
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna = 22200 mg/L 48h
		b) Aquatic chronic toxicity: NOEC Daphnia Daphnia magna = 208 mg/L
		a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 22000 mg/L 96h OECD 201 Guideline.
		d) Terrestrial toxicity: NOEC Worm Eisenia andrei = 10000 mg/kg
		d) Terrestrial toxicity : NOEC Folsomia candida = 1000 mg/kg OECD Guideline 232

12.2. Persistence and degradability

Component	Persitence	e/Degradability:	Test	Value	Notes:
bis-[4-(2,3- epoxipropoxi)phenyl]propa	Non-readily ne	v biodegradable	Oxygen consumption		OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)
p-tert-butylphenyl 1-(2,3- epoxy)propyl ether	Non-readily	v biodegradable	Oxygen consumption		28days
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6 pentamethylpiperidin-4-yl) decanedioate	Non-readily -	v biodegradable		38.000	28days
xylene	Readily bio	degradable			
ethyl acrylate	Readily bio	degradable	Biochemical oxigen	100.000)
Date 14/05/2025	Production Name	FUGALITE COLOR U	K PART A		Page n. 12 of

demand

Readily biodegradable

12.3. Bioaccumulative potential

methanol

Component	Bioaccumulation	Test	Value	Notes:
bis-[4-(2,3- epoxipropoxi)phenyl]propane	Bioaccumulative	BCF - Bioconcentrantion factor	31.000	
1-Methyl 1,2,2,6,6- pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6- pentamethylpiperidin-4-yl) decanedioate	Not bioaccumulative			
xylene	Bioaccumulative	BCF - Bioconcentrantion factor	25.900	
ethyl acrylate	Bioaccumulative	BCF - Bioconcentrantion factor	2.000	
methanol	Not bioaccumulative	BCF - Bioconcentrantion factor		< 10

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration >= 0.1%

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

```
14.1. UN number
        N.A.
14.2. UN proper shipping name
       N.A.
14.3. Transport hazard class(es)
       N.A.
14.4. Packing group
       N.A.
14.5. Environmental hazards
       N.A.
14.6. Special precautions for user
       N.A.
Road and Rail (ADR-RID):
       N.A.
Air (IATA):
       N.A.
Sea (IMDG):
       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

Workplace exposure limit within the meaning of the Control of Substances Hazardous to Health Regulations 2002 (WEL-EH40)

REACH regulation as changed by the REACH etc. (Amendment etc.) (EU Exit) Regulations (UK REACH) CLP regulation as changed by the Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations (GB CLP)

GB PIC legislation - (Regulation (EU) No 649/2012 as changed by the Chemicals (Health and Safety) and Ger (Contained Use) (Amendment etc) (EU Exit) Regulations	etically Modified Organisms
Restrictions related to the product or the substances contained according to Annex XVII of UK REACH:	
Restrictions related to the product: 3	
Restrictions related to the substances contained: 40, 69	
Additional Regulatory Information for Great Britain	
No Additional Information	
Provisions related to the Control of Major Accident Hazards Regulations 2015 (GB implementation of Seveso J	III):
Seveso III category according Lower-tier threshold (tonnes) Upper-tier threshold (tonn to Schedule I, part 1	1es)
Product belongs to category: E2 200 500	
GB PIC Legislation:	
No substances listed	
SVHC Substances:	
No SVHC substances present in concentration $>= 0.1\%$	
15.2. Chemical safety assessment	
No Chemical Safety Assessment has been carried out for the mixture.	
Substances for which a Chemical Safety Assessment has been carried out:	
bis-[4-(2,3-epoxipropoxi)phenyl]propane	
1-Methyl 1,2,2,6,6-pentamethylpiperidin-4-yl decanedioate bis(1,2,2,6,6-pentamethylpiperidin-4-yl)	decanedioate

SECTION 16: Other information

Code	Description		
H225	Highly flammable liquid and vapour.		
H226	Flammable liquid and vapour.		
H301	Toxic if swallowed.		
H302	Harmful if swallowed.		
H304	May be fatal if swallowed and enters airway	S.	
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.		
H319	Causes serious eye irritation.		
H331	Toxic if inhaled.		
H332	Harmful if inhaled.		
H335	May cause respiratory irritation.		
H351	Suspected of causing cancer if inhaled.		
H361	Suspected of damaging fertility or the unborn child.		
H370	Causes damage to organs.		
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.		
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	
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3	
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3	
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3	
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4	
3.1/4/Inhal	Acute Tox. 4 Acute toxicity (inhalation), Category 4		
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4	

Asp. Tox. 1	Aspiration hazard, Category 1
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Eye Irrit. 2	Eye irritation, Category 2
Skin Sens. 1	Skin Sensitisation, Category 1
Skin Sens. 1A	Skin Sensitisation, Category 1A
Carc. 2	Carcinogenicity, Category 2
Repr. 2	Reproductive toxicity, Category 2
STOT SE 1	Specific target organ toxicity — single exposure, Category 1
STOT SE 3	Specific target organ toxicity — single exposure, Category 3
STOT RE 2	Specific target organ toxicity $-$ repeated exposure, Category 2 $\!\!\!\!$
Aquatic Acute 1	Acute aquatic hazard, category 1
Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3
	Asp. Tox. 1 Skin Corr. 1B Skin Irrit. 2 Eye Irrit. 2 Skin Sens. 1 Skin Sens. 1A Carc. 2 Repr. 2 STOT SE 1 STOT SE 3 STOT SE 3 STOT RE 2 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3

Classification and procedure used to derive the classification for mixtures according to GB CLP regulation:

Classification according to GB CLP	Classification procedure
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1A, H317	Calculation method
Aquatic Chronic 2, H411	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

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: Keep Away From Heat 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.