10665401 - FIX-R Flexi-GRP 18Kg

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

1.1 Product identifier: 10665401 - FIX-R Flexi-GRP 18Kg

Other means of identification:

Not relevant

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

Relevant uses (Professional users): Roof coating
Relevant uses (Industrial user): Roof coating
For Professional users/Industrial user only.
Uses advised against: All uses not specified in this section or in section 7.3

1.3 Details of the supplier of the safety data sheet:

FIX-R
Harding Way
PE27 3YJ St Ives - Cambridgeshire - United Kingdom
Phone: +44 (0) 1480 466 777
sigassured@sigplc.com
www.fix-r.co.uk

1.4 Emergency telephone number: +44 (0) 1274 696979 (Monday - Friday 8am - 5pm GMT)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Classification of this product has been carried out in accordance with GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567).
Eye Irrit. 2: Eye irritation, Category 2, H319
Flam. Liq. 3: Flammable liquids, Category 3, H226
Repr. 2: Reproductive toxicity, Category 2, H361d
Skin Irrit. 2: Skin irritation, Category 2, H315
Skin Sens. 1A: Sensitisation, skin, Category 1A, H317
STOT RE 1: Specific target organ toxicity, repeated exposure, Category 1, H372

2.2 Label elements:

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Danger

Hazard statements:

Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Repr. 2: H361d - Suspected of damaging the unborn child.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure. Organs affected: Hearing organs.

Precautionary statements:

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SECTION 2: HAZARDS IDENTIFICATION (continued)

P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P260: Do not breathe vapours
P261: Avoid breathing vapours
P264: Wash thoroughly after handling.
P270: Do no eat, drink or smoke when using this product.
P280: Wear protective gloves/face protection/protective clothing/respiratory protection/protective footwear.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313: IF exposed or concerned: Get medical advice/attention.
P314: Get medical advice/attention if you feel unwell.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P337+P313: If eye irritation persists: Get medical advice/attention.
P370+P378: In case of fire: Use Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC) to extinguish.
P403+P235: Store in a well-ventilated place. Keep cool.
P501: Dispose of the contents and/or its container in line with regulations on dangerous waste or packaging and waste packaging respectively.

Supplementary information:

Contains Cobalt bis(2-ethylhexanoate), phthalic anhydride, benzyl alcohol.

Substances that contribute to the classification

styrene (CAS: 100-42-5); maleic anhydride (CAS: 108-31-6)

2.3 Other hazards:

Product does not meet PBT/vPvB criteria

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Not relevant

3.2 Mixture:

Chemical description: Mixture of substances

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

Identification	Chemical name/Classification	Concentration
CAS: 100-42-5 EC: 202-851-5 REACH: 01-2119457861-32-XXXX	**styrene** Acute Tox. 4: H332; Eye Irrit. 2: H319; Flam. Liq. 3: H226; Repr. 2: H361d; Skin Irrit. 2: H315; STOT RE 1: H372 - Danger	**20 - <30 %**
CAS: 121-69-7 EC: 204-493-5 REACH: 01-2119935241-47-XXXX	**N,N-dimethylaniline** Acute Tox. 3: H301+H311+H331; Aquatic Chronic 2: H411; Carc. 2: H351 - Danger	**0.1 - <1 %**
CAS: 3164-85-0 EC: 221-625-7 REACH: 01-2119980714-29-XXXX	**Potassium 2-ethylhexanoate** Eye Dam. 1: H318; Repr. 2: H361; Skin Irrit. 2: H315 - Danger	**0.1 - <1 %**
CAS: 136-52-7 EC: 205-250-6 REACH: 01-2119524678-29-XXXX	**Cobalt bis(2-ethylhexanoate)** Aquatic Acute 1: H400; Aquatic Chronic 3: H412; Eye Irrit. 2: H319; Repr. 1B: H360FD; Skin Sens. 1: H317 - Danger	**0.1 - <1 %**
CAS: 85-44-9 EC: 201-607-5 REACH: 01-2119457017-41-XXXX	**phthalic anhydride** Acute Tox. 4: H302; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT SE 3: H335 - Danger	**0.1 - <1 %**
CAS: 100-51-6 EC: 202-859-9 REACH: 01-2119492630-38-XXXX	**benzyl alcohol** Acute Tox. 4: H302; Eye Irrit. 2: H319; Skin Sens. 1B: H317 - Warning	**0.1 - <1 %**

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

Identification	Chemical name/Classification	Concentration
CAS: 108-31-6 EC: 203-571-6 REACH: 01-2119472428-31-XXXX	**maleic anhydride** Acute Tox. 4: H302; Eye Dam. 1: H318; Resp. Sens. 1: H334; Skin Corr. 1B: H314; Skin Sens. 1A: H317; STOT RE 1: H372; EUH071 - Danger 	**0.001 - <0.01 %**

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

Other information:

Identification	Specific concentration limit
maleic anhydride CAS: 108-31-6	% (w/w) >=0.001: Skin Sens. 1A - H317

Acute toxicity estimate for the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or as determined in accordance with Annex I to that Regulation:

Identification	Acute toxicity		Genus
N,N-dimethylaniline CAS: 121-69-7 EC: 204-493-5	LD50 oral	100 mg/kg	
	LD50 dermal	300 mg/kg	
	LC50 inhalation vapour	3 mg/L	
styrene CAS: 100-42-5 EC: 202-851-5	LD50 oral	Not relevant	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	11.8 mg/L	Rat
phthalic anhydride CAS: 85-44-9 EC: 201-607-5	LD50 oral	1530 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1200 mg/kg	
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	
maleic anhydride CAS: 108-31-6 EC: 203-571-6	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	Not relevant	
	LC50 inhalation vapour	Not relevant	

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

Remove the person affected from the area of exposure, provide with fresh air and keep at rest. In serious cases such as cardiorespiratory failure, artificial resuscitation techniques will be necessary (mouth to mouth resuscitation, cardiac massage, oxygen supply,etc.) requiring immediate medical assistance.

By skin contact:

Remove contaminated clothing and footwear, rinse skin or shower the person affected if appropriate with plenty of cold water and neutral soap. In serious cases see a doctor. If the product causes burns or freezing, clothing should not be removed as this could worsen the injury caused if it is stuck to the skin. If blisters form on the skin, these should never be burst as this will increase the risk of infection.

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

Do not induce vomiting, but if it does happen keep the head down to avoid aspiration. Keep the person affected at rest. Rinse out the mouth and throat, as they may have been affected during ingestion.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Not relevant

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SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

Foam extinguisher (AB), Dry Chemical Powder (ABC) Fire Extinguisher, Carbon dioxide extinguisher (BC)

Unsuitable extinguishing media:

Water jet

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and Self Contained Breathing Apparatus. Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...)

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

It is recommended to avoid environmental spillage of both the product and its container.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Prevent the entrance of product in drains, sewers or watercourses. Absorb the spill using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. Collect the product in appropriate containers and manage it according to current legislation.
Spillages in water or sea:
Small spillages:
Contain spillage using barriers or similar equipment. Use suitable absorbents for collection and treat the waste in accordance with current regulations.
Large spillages:
If possible, contain spillage in open water using barriers or similar equipment. If this is not possible, try to control its spread and collect the product with suitable mechanical means. Always consult experts before using dispersants and make sure you have the necessary approvals if they are to be used. Treat the waste according to current regulations.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

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SECTION 7: HANDLING AND STORAGE (continued)

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,…) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 and with the minimum requirements for protecting the security and health of workers under the selection criteria of The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

PREGNANT WOMEN SHOULD NOT BE EXPOSED TO THIS PRODUCT. Transfer in designated areas that comply with the necessary safety conditions (emergency showers and eyewash stations in close proximity), using personal protection equipment, especially on the hands and face (See section 8). Limit manual transfers to small amounts only. Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Specific storage requirements

Store in a cool, dry, well-ventilated location

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

Other information:

Storage temperature: Between 5°C and 20°C
Shelf Life: 6 Months

7.3 Specific end use(s):

See Section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be assessed in the workplace:

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
Titanium dioxide	WEL (8h)		4 mg/m³
CAS: 13463-67-7	WEL (15 min)		
Ethanediol [1]	WEL (8h)	20 ppm	52 mg/m³
CAS: 107-21-1	WEL (15 min)	40 ppm	104 mg/m³
N,N-dimethylaniline	WEL (8h)	5 ppm	25 mg/m³
CAS: 121-69-7	WEL (15 min)	10 ppm	50 mg/m³
Cobalt bis(2-ethylhexanoate)	WEL (8h)		0.1 mg/m³
CAS: 136-52-7	WEL (15 min)		
Paraffin waxes and Hydrocarbon waxes	WEL (8h)		2 mg/m³
CAS: 8002-74-2	WEL (15 min)		6 mg/m³
Carbon black	WEL (8h)		3.5 mg/m³
CAS: 1333-86-4	WEL (15 min)		7 mg/m³
2-ethylhexanol	WEL (8h)	1 ppm	5.4 mg/m³
CAS: 104-76-7	WEL (15 min)		
2-methoxy-1-methylethyl acetate [1]	WEL (8h)	50 ppm	274 mg/m³
CAS: 108-65-6	WEL (15 min)	100 ppm	548 mg/m³
2,2´-oxybisethanol	WEL (8h)	23 ppm	101 mg/m³
CAS: 111-46-6	WEL (15 min)		
phthalic anhydride	WEL (8h)		4 mg/m³
CAS: 85-44-9	WEL (15 min)		12 mg/m³
Phosphoric acid	WEL (8h)		1 mg/m³
CAS: 7664-38-2	WEL (15 min)		2 mg/m³
propionic acid	WEL (8h)	10 ppm	31 mg/m³
CAS: 79-09-4	WEL (15 min)	15 ppm	46 mg/m³
maleic anhydride	WEL (8h)		1 mg/m³

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

EH40/2005 Workplace exposure limits, fourth edition, published 2020:

Identification	Occupational exposure limits		
CAS: 108-31-6	WEL (15 min)		3 mg/m³
2,6-di-tert-butyl-p-cresol	WEL (8h)		10 mg/m³
CAS: 128-37-0	WEL (15 min)		
styrene	WEL (8h)	100 ppm	430 mg/m³
CAS: 100-42-5	WEL (15 min)	250 ppm	1080 mg/m³

(1) Skin

DNEL (Workers):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
styrene	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 100-42-5	Dermal	Not relevant	Not relevant	406 mg/kg	Not relevant
EC: 202-851-5	Inhalation	289 mg/m³	306 mg/m³	85 mg/m³	Not relevant
N,N-dimethylaniline	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 121-69-7	Dermal	Not relevant	Not relevant	2.988 mg/kg	Not relevant
EC: 204-493-5	Inhalation	Not relevant	Not relevant	3.406 mg/m³	Not relevant
Potassium 2-ethylhexanoate	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 3164-85-0	Dermal	Not relevant	Not relevant	5.95 mg/kg	Not relevant
EC: 221-625-7	Inhalation	Not relevant	Not relevant	41.98 mg/m³	Not relevant
Cobalt bis(2-ethylhexanoate)	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 136-52-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 205-250-6	Inhalation	Not relevant	Not relevant	Not relevant	0.2351 mg/m³
phthalic anhydride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 85-44-9	Dermal	Not relevant	Not relevant	10 mg/kg	Not relevant
EC: 201-607-5	Inhalation	Not relevant	Not relevant	32.2 mg/m³	Not relevant
benzyl alcohol	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 100-51-6	Dermal	40 mg/kg	Not relevant	8 mg/kg	Not relevant
EC: 202-859-9	Inhalation	110 mg/m³	Not relevant	22 mg/m³	Not relevant
maleic anhydride	Oral	Not relevant	Not relevant	Not relevant	Not relevant
CAS: 108-31-6	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 203-571-6	Inhalation	0.2 mg/m³	0.2 mg/m³	0.081 mg/m³	0.081 mg/m³

DNEL (General population):

Identification		Short exposure		Long exposure	
		Systemic	Local	Systemic	Local
styrene	Oral	Not relevant	Not relevant	2.1 mg/kg	Not relevant
CAS: 100-42-5	Dermal	Not relevant	Not relevant	343 mg/kg	Not relevant
EC: 202-851-5	Inhalation	174.25 mg/m³	182.75 mg/m³	10.2 mg/m³	Not relevant
N,N-dimethylaniline	Oral	Not relevant	Not relevant	1.474 mg/kg	Not relevant
CAS: 121-69-7	Dermal	Not relevant	Not relevant	0.737 mg/kg	Not relevant
EC: 204-493-5	Inhalation	Not relevant	Not relevant	0.847 mg/m³	Not relevant
Potassium 2-ethylhexanoate	Oral	Not relevant	Not relevant	2.98 mg/kg	Not relevant
CAS: 3164-85-0	Dermal	Not relevant	Not relevant	2.98 mg/kg	Not relevant
EC: 221-625-7	Inhalation	Not relevant	Not relevant	10.35 mg/m³	Not relevant
Cobalt bis(2-ethylhexanoate)	Oral	Not relevant	Not relevant	0.175 mg/kg	Not relevant
CAS: 136-52-7	Dermal	Not relevant	Not relevant	Not relevant	Not relevant
EC: 205-250-6	Inhalation	Not relevant	Not relevant	Not relevant	0.037 mg/m³
phthalic anhydride	Oral	Not relevant	Not relevant	5 mg/kg	Not relevant
CAS: 85-44-9	Dermal	Not relevant	Not relevant	5 mg/kg	Not relevant
EC: 201-607-5	Inhalation	Not relevant	Not relevant	8.6 mg/m³	Not relevant
benzyl alcohol	Oral	20 mg/kg	Not relevant	4 mg/kg	Not relevant
CAS: 100-51-6	Dermal	20 mg/kg	Not relevant	4 mg/kg	Not relevant
EC: 202-859-9	Inhalation	27 mg/m³	Not relevant	5.4 mg/m³	Not relevant

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

PNEC:

Identification				
styrene	STP	5 mg/L	Fresh water	0.028 mg/L
CAS: 100-42-5	Soil	0.2 mg/kg	Marine water	0.014 mg/L
EC: 202-851-5	Intermittent	0.04 mg/L	Sediment (Fresh water)	0.614 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.307 mg/kg
N,N-dimethylaniline	STP	5.948 mg/L	Fresh water	0.023 mg/L
CAS: 121-69-7	Soil	1.906 mg/kg	Marine water	0.002 mg/L
EC: 204-493-5	Intermittent	0.023 mg/L	Sediment (Fresh water)	4.942 mg/kg
	Oral	Not relevant	Sediment (Marine water)	4.942 mg/kg
Potassium 2-ethylhexanoate	STP	71.7 mg/L	Fresh water	0.36 mg/L
CAS: 3164-85-0	Soil	1.06 mg/kg	Marine water	0.036 mg/L
EC: 221-625-7	Intermittent	0.493 mg/L	Sediment (Fresh water)	6.37 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.637 mg/kg
Cobalt bis(2-ethylhexanoate)	STP	0.37 mg/L	Fresh water	0.00062 mg/L
CAS: 136-52-7	Soil	10.9 mg/kg	Marine water	0.00236 mg/L
EC: 205-250-6	Intermittent	Not relevant	Sediment (Fresh water)	53.8 mg/kg
	Oral	Not relevant	Sediment (Marine water)	69.8 mg/kg
phthalic anhydride	STP	10 mg/L	Fresh water	1 mg/L
CAS: 85-44-9	Soil	0.173 mg/kg	Marine water	0.1 mg/L
EC: 201-607-5	Intermittent	5.6 mg/L	Sediment (Fresh water)	3.8 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.38 mg/kg
benzyl alcohol	STP	39 mg/L	Fresh water	1 mg/L
CAS: 100-51-6	Soil	0.456 mg/kg	Marine water	0.1 mg/L
EC: 202-859-9	Intermittent	2.3 mg/L	Sediment (Fresh water)	5.27 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.527 mg/kg
maleic anhydride	STP	44.6 mg/L	Fresh water	0.038 mg/L
CAS: 108-31-6	Soil	0.037 mg/kg	Marine water	0.004 mg/L
EC: 203-571-6	Intermittent	0.379 mg/L	Sediment (Fresh water)	0.296 mg/kg
	Oral	Not relevant	Sediment (Marine water)	0.03 mg/kg

8.2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

In accordance with the order of importance to control professional exposure it is recommended to use localized extraction in the work area as a collective protection measure to avoid exceeding the occupational exposure limits. In case of using personal protective equipment it should have <<UKCA marking>> or <<CE marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,…) consult the information leaflet provided by the manufacturer. For additional information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

Pictogram	PPE	Remarks
 Mandatory respiratory tract protection	Filter mask for gases and vapours (Filter type: A)	Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment.

C.- Specific protection for the hands

Pictogram	PPE	Remarks
 Mandatory hand protection	Chemical protective gloves (Material: Linear low -density polyethylene (LLDPE), Breakthrough time: > 480 min, Thickness: 0.062 mm)	Replace the gloves at any sign of deterioration.

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

D.- Eye and face protection

Pictogram	PPE	Remarks
 Mandatory face protection	Face shield	Clean daily and disinfect periodically according to the manufacturer´s instructions. Use if there is a risk of splashing.

E.- Body protection

Pictogram	PPE	Remarks
 Mandatory complete body protection	Disposable clothing for protection against chemical risks, with antistatic and fireproof properties	For professional use only. Clean periodically according to the manufacturer´s instructions.
 Mandatory foot protection	Safety footwear for protection against chemical risk, with antistatic and heat resistant properties	Replace boots at any sign of deterioration.

F.- Additional emergency measures

It is advised to implement additional emergency equipments in workplaces that are particularly exposed to the product or in situations where risk assessments highlight the necessity of such equipments.

Emergency measure	Standards	Emergency measure	Standards
 Emergency shower	ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011	 Eyewash stations	DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011

Environmental exposure controls:

To comply with environmental protection regulations, it is recommended to prevent any spillage of the product and its container. For more detailed information, please refer to subsection 7.1.D.

The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012:

V.O.C. (Supply): 26.32 % weight

V.O.C. density at 20 ºC: 380.54 kg/m³ (380.54 g/L)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

For complete information see the product datasheet.

Appearance:

Physical state at 20 ºC:	Liquid
Appearance:	Not relevant *
Colour:	Grey
Odour:	Characteristic
Odour threshold:	Not relevant *

Volatility:

Boiling point at atmospheric pressure:	147 ºC
Vapour pressure at 20 ºC:	589 Pa
Vapour pressure at 50 ºC:	3126.76 Pa (3.13 kPa)
Evaporation rate at 20 ºC:	Not relevant *

Product description:

Density at 20 ºC:	1445.9 kg/m³

*Not relevant due to the nature of the product, not providing information property of its hazards.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (continued)

Relative density at 20 ºC:	1.446
Dynamic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 20 ºC:	Not relevant *
Kinematic viscosity at 40 ºC:	Not relevant *
Concentration:	Not relevant *
pH:	Not relevant *
Vapour density at 20 ºC:	Not relevant *
Partition coefficient n-octanol/water 20 ºC:	Not relevant *
Solubility in water at 20 ºC:	Not relevant *
Solubility properties:	Not relevant *
Decomposition temperature:	Not relevant *
Melting point/freezing point:	Not relevant *
Flammability:	
Flash Point:	32 ºC
Flammability (solid, gas):	Not relevant *
Autoignition temperature:	229 ºC
Lower flammability limit:	Not relevant *
Upper flammability limit:	Not relevant *
Particle characteristics:	
Median equivalent diameter:	Not relevant *

9.2 Other information:

Information with regard to physical hazard classes:

Explosive properties:	Not relevant *
Oxidising properties:	Not relevant *
Corrosive to metals:	Not relevant *
Heat of combustion:	Not relevant *
Aerosols-total percentage (by mass) of flammable components:	Not relevant *
Other safety characteristics:	
Surface tension at 20 ºC:	Not relevant *
Refraction index:	Not relevant *

*Not relevant due to the nature of the product, not providing information property of its hazards.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7 from Safety Data Sheet.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

Shock and friction	Contact with air	Increase in temperature	Sunlight	Humidity
Not applicable	Not applicable	Risk of combustion	Avoid direct impact	Not applicable

10.5 Incompatible materials:

- CONTINUED ON NEXT PAGE -

SECTION 10: STABILITY AND REACTIVITY (continued)

Acids	Water	Oxidising materials	Combustible materials	Others
Avoid strong acids	Not applicable	Avoid	Not applicable	Avoid alkalis or strong bases

10.6 Hazardous decomposition products:

Contains susbstances highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are extremely shock- and heat-sensitive.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):

- Acute toxicity: Based on available data, the classification criteria are not met, however, it contains substances classified as dangerous for consumption. For more information see section 3.
- Corrosivity/Irritability: The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

B- Inhalation (acute effect):

- Acute toxicity : Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.
- Corrosivity/Irritability: Prolonged inhalation of the product is corrosive to mucous membranes and the upper respiratory tract

C- Contact with the skin and the eyes (acute effect):

- Contact with the skin: Produces skin inflammation.
- Contact with the eyes: Produces eye damage after contact.

D- CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction):

- Carcinogenicity: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with carcinogenic effects. For more information see section 3.
  IARC: Titanium dioxide (2B); N,N-dimethylaniline (3); Cobalt bis(2-ethylhexanoate) (2B); Carbon black (2B); Hydrocarbons, C9-C11,n-alkanes, iso-alkanes, cyclics, <2% aromatics (3); 2,6-di-tert-butyl-p-cresol (3); styrene (2A)
- Mutagenicity: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.
- Reproductive toxicity: Suspected to damage the foetus

E- Sensitizing effects:

- Respiratory: Based on available data, the classification criteria are not met. However, it contains substances classified as dangerous with sensitising effects. For more information see section 3.
- Skin: Prolonged contact with the skin can result in episodes of allergic contact dermatitis.

F- Specific target organ toxicity (STOT) - single exposure:

Based on available data, the classification criteria are not met. However, it contains substances classified as hazardous for inhalation. For more information see section 3.

G- Specific target organ toxicity (STOT)-repeated exposure:

- Specific target organ toxicity (STOT)-repeated exposure: Serious health effects in the case of prolonged consumption, including death, serious functional disorders or morphological changes of toxicological importance. Organs affected: Hearing organs.
- Skin: Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

H- Aspiration hazard:

Based on available data, the classification criteria are not met, as it does not contain substances classified as hazardous for this effect. For more information see section 3.

Other information:

Not relevant

Specific toxicology information on the substances:

- CONTINUED ON NEXT PAGE -

SECTION 11: TOXICOLOGICAL INFORMATION (continued)

Identification	Acute toxicity		Genus
N,N-dimethylaniline CAS: 121-69-7 EC: 204-493-5	LD50 oral	100 mg/kg	
	LD50 dermal	300 mg/kg	
	LC50 inhalation vapour	3 mg/L	
styrene CAS: 100-42-5 EC: 202-851-5	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	11.8 mg/L	Rat
Potassium 2-ethylhexanoate CAS: 3164-85-0 EC: 221-625-7	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7 EC: 205-250-6	LD50 oral	>2000 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
phthalic anhydride CAS: 85-44-9 EC: 201-607-5	LD50 oral	1530 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	
benzyl alcohol CAS: 100-51-6 EC: 202-859-9	LD50 oral	1200 mg/kg	
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation vapour	>20 mg/L	
maleic anhydride CAS: 108-31-6 EC: 203-571-6	LD50 oral	1090 mg/kg	Rat
	LD50 dermal	>2000 mg/kg	
	LC50 inhalation dust	>5 mg/L	

Acute Toxicity Estimate (ATE mix):

ATE mix		Ingredient(s) of unknown toxicity
Oral	33333.33 mg/kg (Calculation method)	0 %
Dermal	100000 mg/kg (Calculation method)	0 %
LC50 inhalation vapour	45.07 mg/L (4 h) (Calculation method)	0 %

SECTION 12: ECOLOGICAL INFORMATION

The experimental information related to the eco-toxicological properties of the product itself is not available

Based on available data, the classification criteria are not met. However, it does contain substances classified as hazardous for this effect. For more information see section 3.

12.1 Toxicity:

Acute toxicity:

Identification	Concentration		Species	Genus
styrene CAS: 100-42-5	LC50	4.02 mg/L (96 h)	Pimephales promelas	Fish
	EC50	4.7 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	4.9 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
N,N-dimethylaniline CAS: 121-69-7	LC50	69 mg/L (48 h)	Carassius auratus	Fish
	EC50	5 mg/L (48 h)	Daphnia magna	Crustacean
	EC50	340 mg/L (96 h)	Scenedesmus subspicatus	Algae
Cobalt bis(2-ethylhexanoate) CAS: 136-52-7	LC50	Not relevant		
	EC50	Not relevant		
	EC50	0.144 mg/L (72 h)	Pseudokirchneriella subcapitata	Algae
phthalic anhydride CAS: 85-44-9	LC50	Not relevant		
	EC50	Not relevant		
	EC50	60 mg/L (96 h)	Pseudokirchneriella subcapitata	Algae
benzyl alcohol CAS: 100-51-6	LC50	646 mg/L (48 h)	Leuciscus idus	Fish
	EC50	400 mg/L (24 h)	Daphnia magna	Crustacean
	EC50	79 mg/L (3 h)	Scenedesmus subspicatus	Algae

Chronic toxicity:

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Concentration		Species	Genus
styrene	NOEC	Not relevant		
CAS: 100-42-5	NOEC	1.01 mg/L	Daphnia magna	Crustacean
phthalic anhydride	NOEC	10 mg/L	Oncorhynchus mykiss	Fish
CAS: 85-44-9	NOEC	16 mg/L	Daphnia magna	Crustacean
benzyl alcohol	NOEC	48.897 mg/L	N/A	Fish
CAS: 100-51-6	NOEC	51 mg/L	Daphnia magna	Crustacean

12.2 Persistence and degradability:

Substance-specific information:

Identification	Degradability		Biodegradability	
styrene	BOD5	Not relevant	Concentration	91 mg/L
CAS: 100-42-5	COD	Not relevant	Period	28 days
EC: 202-851-5	BOD5/COD	Not relevant	% Biodegradable	70.9 %
N,N-dimethylaniline	BOD5	Not relevant	Concentration	100 mg/L
CAS: 121-69-7	COD	Not relevant	Period	14 days
EC: 204-493-5	BOD5/COD	Not relevant	% Biodegradable	1.9 %
Cobalt bis(2-ethylhexanoate)	BOD5	Not relevant	Concentration	10 mg/L
CAS: 136-52-7	COD	Not relevant	Period	10 days
EC: 205-250-6	BOD5/COD	Not relevant	% Biodegradable	60 %
phthalic anhydride	BOD5	Not relevant	Concentration	100 mg/L
CAS: 85-44-9	COD	Not relevant	Period	14 days
EC: 201-607-5	BOD5/COD	Not relevant	% Biodegradable	85.2 %
benzyl alcohol	BOD5	Not relevant	Concentration	100 mg/L
CAS: 100-51-6	COD	Not relevant	Period	14 days
EC: 202-859-9	BOD5/COD	Not relevant	% Biodegradable	94 %
maleic anhydride	BOD5	Not relevant	Concentration	33.33 mg/L
CAS: 108-31-6	COD	Not relevant	Period	29 days
EC: 203-571-6	BOD5/COD	Not relevant	% Biodegradable	98.19 %

12.3 Bioaccumulative potential:

Substance-specific information:

Identification	Bioaccumulation potential	
styrene	BCF	74
CAS: 100-42-5	Pow Log	2.96
EC: 202-851-5	Potential	Moderate
N,N-dimethylaniline	BCF	13
CAS: 121-69-7	Pow Log	2.3
EC: 204-493-5	Potential	Low
Cobalt bis(2-ethylhexanoate)	BCF	23
CAS: 136-52-7	Pow Log	
EC: 205-250-6	Potential	Low
benzyl alcohol	BCF	0.3
CAS: 100-51-6	Pow Log	1.1
EC: 202-859-9	Potential	Low
maleic anhydride	BCF	
CAS: 108-31-6	Pow Log	-2.61
EC: 203-571-6	Potential	

12.4 Mobility in soil:

Identification	Absorption/desorption		Volatility	
styrene	Koc	352	Henry	232 Pa·m³/mol
CAS: 100-42-5	Conclusion	Moderate	Dry soil	Yes
	Surface tension	3.21E-2 N/m (25 ºC)	Moist soil	Yes

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SECTION 12: ECOLOGICAL INFORMATION (continued)

Identification	Absorption/desorption		Volatility	
N,N-dimethylaniline	Koc	Not relevant	Henry	Not relevant
CAS: 121-69-7	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	3.595E-2 N/m (25 ºC)	Moist soil	Not relevant
phthalic anhydride	Koc	36	Henry	Not relevant
CAS: 85-44-9	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	1.531E-2 N/m (324.43 ºC)	Moist soil	Not relevant
benzyl alcohol	Koc	Not relevant	Henry	Not relevant
CAS: 100-51-6	Conclusion	Not relevant	Dry soil	Not relevant
	Surface tension	3.679E-2 N/m (25 ºC)	Moist soil	Not relevant
maleic anhydride	Koc	42	Henry	0E+0 Pa·m³/mol
CAS: 108-31-6	Conclusion	Very High	Dry soil	Not relevant
	Surface tension	1.673E-2 N/m (250.21 ºC)	Moist soil	Not relevant

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

12.6 Other adverse effects:

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Code	Description	Waste class
08 04 09*	waste adhesives and sealants containing organic solvents or other hazardous substances	Hazardous

Type of waste:

HP3 Flammable, HP5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity, HP6 Acute Toxicity, HP10 Toxic for reproduction, HP4 Irritant — skin irritation and eye damage

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste (England & Wales) Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-hazardous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste (England & Wales) Regulations 2011.

SECTION 14: TRANSPORT INFORMATION

Transport of dangerous goods by land:

With regard to ADR 2023 and RID 2023:

14.1	**UN number:**	UN1866
14.2	**UN proper shipping name:**	RESIN SOLUTION
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	I
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Tunnel restriction code:	D/E
	Physico-Chemical properties:	see section 9
	Limited quantities:	500 mL
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

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SECTION 14: TRANSPORT INFORMATION (continued)

Transport of dangerous goods by sea:

With regard to IMDG 41-22:

14.1	**UN number:**	UN1866
14.2	**UN proper shipping name:**	RESIN SOLUTION
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	I
14.5	**Marine pollutant:**	No
14.6	**Special precautions for user**	
	Special regulations:	Not relevant
	EmS Codes:	F-E, S-E
	Physico-Chemical properties:	see section 9
	Limited quantities:	500 mL
	Segregation group:	Not relevant
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

Transport of dangerous goods by air:

With regard to IATA/ICAO 2025:

14.1	**UN number:**	UN1866
14.2	**UN proper shipping name:**	RESIN SOLUTION
14.3	**Transport hazard class(es):**	3
	Labels:	3
14.4	**Packing group:**	I
14.5	**Environmental hazards:**	No
14.6	**Special precautions for user**	
	Physico-Chemical properties:	see section 9
14.7	**Transport in bulk according to Annex II of Marpol and the IBC Code:**	Not relevant

SECTION 15: REGULATORY INFORMATION

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

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Not relevant
- Substances listed in UK REACH Authorisation List (Annex 14): Not relevant

The Control of Major Accident Hazards Regulations 2015:

Section	Description	Lower-tier requirements	Upper-tier requirements
P5c	FLAMMABLE LIQUIDS	5000	50000

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc ….):

Shall not be used in:
—ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays,
—tricks and jokes,
—games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.
The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020.
Control of Substances Hazardous to Health Regulations 2002 (as amended)
EH40/2005 Workplace exposure limits.

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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

H317: May cause an allergic skin reaction.
H315: Causes skin irritation.
H372: Causes damage to organs through prolonged or repeated exposure. Organs affected: Hearing organs.
H361d: Suspected of damaging the unborn child.
H226: Flammable liquid and vapour.
H319: Causes serious eye irritation.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation (UK S.I. 2019/720 and UK S.I. 2020/1567):

Acute Tox. 3: H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled.
Acute Tox. 4: H302 - Harmful if swallowed.
Acute Tox. 4: H332 - Harmful if inhaled.
Aquatic Acute 1: H400 - Very toxic to aquatic life.
Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Carc. 2: H351 - Suspected of causing cancer.
Eye Dam. 1: H318 - Causes serious eye damage.
Eye Irrit. 2: H319 - Causes serious eye irritation.
Flam. Liq. 3: H226 - Flammable liquid and vapour.
Repr. 1B: H360FD - May damage fertility. May damage the unborn child.
Repr. 2: H361 - Suspected of damaging fertility or the unborn child.
Repr. 2: H361d - Suspected of damaging the unborn child.
Resp. Sens. 1: H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
Skin Irrit. 2: H315 - Causes skin irritation.
Skin Sens. 1: H317 - May cause an allergic skin reaction.
Skin Sens. 1A: H317 - May cause an allergic skin reaction.
Skin Sens. 1B: H317 - May cause an allergic skin reaction.
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure (Inhalation).
STOT RE 1: H372 - Causes damage to organs through prolonged or repeated exposure.
STOT SE 3: H335 - May cause respiratory irritation.

Classification procedure:

Skin Sens. 1A: Calculation method
Skin Irrit. 2: Calculation method
STOT RE 1: Calculation method
Repr. 2: Calculation method
Flam. Liq. 3: Calculation method (2.6.4.3)
Eye Irrit. 2: Calculation method

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu
http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road
IMDG: International maritime dangerous goods code
IATA: International Air Transport Association
ICAO: International Civil Aviation Organisation
COD: Chemical Oxygen Demand
BOD5: 5day biochemical oxygen demand
BCF: Bioconcentration factor
LD50: Lethal Dose 50
LC50: Lethal Concentration 50
EC50: Effective concentration 50
LogPOW: Octanolwater partition coefficient
Koc: Partition coefficient of organic carbon
UFI: unique formula identifier
IARC: International Agency for Research on Cancer

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- END OF SAFETY DATA SHEET -