

WIRELOCK ROPE CAPPING KIT (Resin System)

SECTION 1 : IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

- 1.1 **Product Identifier** : **WIRELOCK ROPE CAPPING KIT (RESIN SYSTEM)**
- 1.2 **Product use** : The attachment of Sockets to Wire Rope
The kit consists of:
1. Polyester resin dissolved in styrene and other inhibitors. (RESIN)
2. Pure silica granules, Dibenzoyl Peroxide and inert fillers. (POWDER)
- 1.3 **Chemical Family** : Mixture
- 1.4 **Manufacturers name and address** : Millfield Enterprises (Manufacturing) Limited,
16 Shelley Road,
Newburn Industrial Estate,
Newburn,
Newcastle upon Tyne,
NE15 9RT
England
- 1.5 **Emergency Telephone** : +44 (0) 191 2648541

SECTION 2 HAZARDS IDENTIFICATION

- 2.1 **Classification of Substance or Mixture**
Product Definition : Mixture
Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)
Flam. Liq. 3 H226
Acute Tox. 4 H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H335
STOT RE 1 H372i

See section 16 for the full text of the H statements declared above

Classification according to Directive 1999/45/EC (DPD)

The product is classified as dangerous according to directive 1999/45/EC and its amendments

- Classification** : R10
Xn R20,R48/20
Xi R36/37/38

- Physical/chemical hazards** : Flammable
- Human Health Hazards** : Harmful by inhalation. Irritating to eyes, respiratory system and skin. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
- Environmental Hazards** : Based on available data of this product, no hazardous properties are known.

See section 16 for the full text of the R-phrases declared above

- 2.2 **Label Elements**
- Hazard Pictograms** :
- Signal Word** :
- Hazard Statements** :

Pack 1 RESIN	Pack 2 Powder
  	

- H226 Flammable liquid and vapour
- H332 Harmful if inhaled
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H372i Causes damage to organs through prolonged or repeated exposure if inhaled

Precautionary statements

- Prevention**
- : S15 Keep away from heat, sparks, open flames & hot surfaces
 - : S16 Keep away from sources of ignition - No smoking
 - : S17 Keep away from combustible material
 - : S37/39 Wear suitable gloves and eye/face protection
 - : P261 Avoid breathing dust/fume/gas/mist/vapours/spray
 - : P273 Avoid release to the environment
 - : P272 Contaminated work clothing should not be allowed out of the workplace
- Response**
- : P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 - : P303+361+353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing
Rinse skin with water/shower
 - : P333+313 If skin irritation or a rash occurs: Get medical advice/attention
 - : P305+351+338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing
 - : P337+313 If eye irritation persists get medical advice/attention
 - : P264 Wash hands and contaminated skin thoroughly after handling
 - : P272 Contaminated work clothing should not be allowed out of the workplace
 - : P280 Wear protective gloves, protective clothing, eye protection, face protection
 - : P302+352 IF ON SKIN: Wash with soap and water
 - : P308+313 If exposed or concerned: Get Medical advice/attention
 - : P391 Collect spillage
- Storage**
- : S3/9/49 Keep only in the original container in a cool, well-ventilated place
- Disposal**
- : P501 Dispose of contents & container according to local regulations
- Hazardous Ingredients**
- : Styrene
- 2.3 Other Hazards**
- Other Hazards which do not result in classification**
- : Pure silica sand within the powder mixture is not regarded as a health or environmental hazard under current legislation

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Definition	Mixture			
Product/ Ingredient Name	Identifiers	% Content	Classification	Regulation(EC) No. 1272/2008 (CLP)
Styrene	REACH #: 01-2119457861-32 EC: 202-851-5 CAS: 100-42-5 Index: 601-026-00-0	35-50	R10 Xn; R20,R48/20, R65 Xi; R36/37/38	67/548/EEC Flam Liq. 3. H226 Acute Tox. 4 H332 Skin Irrit. 2. H315 Eye Irrit. 2. H319 STOT SE 3. H335 STOT RE 1 H372i Asp. Tox. 1. H304
1.4 naphthquinone	EC: 204-617-8 CAS: 123-31-9 Index: 604-005-00-4	<0.1	Carc. Cat. 3; R40 Muta. Cat. 3; R68 Xn: R22 Xi R41 R43 N; R50	Acute Tox. 4; H302 Eye Dam. 1; H318 Skin Sens. 1; H317 Muta. 2; H341 Carc. 2; H351
Dibenzoylperoxide, 20% Powder with inert fillers (Stated below)	EC: 202-327-6 CAS: 000094-36-0	<1%	EN Xi R03,R36,R43,R50/53	Expl. Fire 2; H241 Skin Sens. 1; H317 Eye Irrit. 2; H319
Calcium Sulphate 75%	EC: 231-900-3 CAS: 007778-18-9		None	
Magnesium Carbonate Hydroxide 5%	EC: 235-192-7, 231-851-8 CAS: 012125-28-9, 007760-50-1		None	
			See section 16 for the full text of the R-	See section for the full text of the H statements declared above

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational Exposure limits, if available, are listed in Section 8.

SECTION 4: FIRST AID MEASURES

- 4.1 Description of First aid Measures**
- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie, belt or waistband.
- Skin Contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before re-use. Clean shoes thoroughly before re-use.
- Ingestion** : Wash out mouth with water. Remove dentures if fitted. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Stop if the exposed person feels sick, as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get Medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Loosen tight clothing such as collar, tie, belt or waistband.

Protection of : No action will be taken involving any personal risk or without suitable training.

First Aiders

- 4.2** Most important symptoms and effects, both acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye irritation
- Inhalation** : Harmful if inhaled
- Skin Contact** : Causes skin irritation
- Ingestion** : Irritating to mouth, throat and stomach

Over-exposure signs / symptoms

- Eye contact** : Adverse symptoms may include the following:
Pain or irritation
Watering
Redness
- Inhalation** : Adverse symptoms may include the following:
Respiratory tract irritation
Coughing
- Skin Contact** : Adverse symptoms may include the following:
Irritation
Redness
- Ingestion** : No specific Data

- 4.3** Indication of any immediate medical attention and special treatment needed

Notes to Physician : **Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.**

Specific Treatments : **No specific Treatment**

SECTION 5: FIREFIGHTING MEASURES

- 5.1** **Extinguishing Media**

Small fire

Suitable : Use dry chemical powder, CO2 or alcohol resistant foam. Cover with vermiculite or other non combustible material.

Not Suitable : Do not use water jet

Large Fire

Suitable : Alcohol resistant foam

Not Suitable : Do not use water jet

- 5.2** **Special hazards arising from the mixture**

Hazards from the mixture : Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or In case of fire, may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, dense black smoke, aldehydes, organic acids.

Hazardous combustion products :

- 5.3** **Advice for firefighters**

Special precautions for fire fighters : Fire water contaminated with this material must be prevented from entering waterways, sewers or drains.

Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire fighters (including helmets, protective boots and gloves) conforming to European standard EN469 will provide a basic level of protection for chemical incidents.

SECTION 6: ACCIDENTAL RELEASE MEASURES.

6.1	Personal precautions, protective equipment and emergency procedures (LARGE SPILLS ONLY)	
	For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding area. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	For emergency responders	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2	Environmental precautions	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
6.3	Methods and materials for containment and cleaning up	
	Small spill	Stop leak if without risk. Move containers from the spill area. Absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of using a licensed waste disposal contractor.
6.4	References to other sections	See section 1 for contact information See section 8 for information on appropriate PPE See section 13 for additional waste treatment information.

SECTION 7: HANDLING & STORAGE

7.1	Precautions for safe handling	
	Protective measures	Wear appropriate PPE, (See Section 8). Do not breathe vapour. Do not ingest. Avoid contact with eyes, skin & clothing. Use only with adequate ventilation. Always keep in the original container. Store and use away from heat and ignition sources. Do not reuse the containers.
	Advice on General Hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands before eating drinking and smoking. Remove contaminated clothing and PPE before entering eating areas. See Section 8 for additional information on Hygiene measures.
7.2	Conditions for safe storage including incompatibilities	Do not store above 20 degrees C, 68 degrees F. Store in accordance with local regulations. Store in a segregated and approved area. Store the original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials, food & Drink. Eliminate all ignition sources. Separate from oxidizing materials. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION

The information in this section contains generic advice and guidance. The list of identified uses in Section 1 should be consulted for any available use specific information provided in the Exposure Scenario.

8.1 Control Parameters

Occupational exposure limits

Styrene	EH40/2005 WELS (United Kingdom) 8/2007 STEL : 250 ppm @ 15 minutes TWA : 100 ppm @ 8 hours TWA : 430 mg/m3 @ 8 hours STEL : 1080 mg/m3 @ 15 minutes
1,4 naphthquinone	EH40/2005 WELS (United Kingdom) 8/2007 TWA : 0.5 mg/m3 @ 8 hours
Dibenzoylperoxide,	EH40/2005 WELS (United Kingdom) 8/2007 TWA : 5 mg/m3 @ 8 hours

Recommended Monitoring procedures

This product contains ingredients with exposure limits, therefore, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for the methods for the determining of hazardous substances.

Derived effect levels

Product /ingredient name	Type	Exposure	Value	Population
Styrene	DNEL	Short term inhalation	289 mg/m3	Workers
	DNEL	Short term inhalation	306 mg/m3	Workers
	DNEL	Long term inhalation	85 mg/m3	Workers

Predicted effect concentrations

Product /ingredient name	Type	Compartment Detail	Value	Method Detail
Styrene	PNEC	Fresh water	0.028 mg/l	Assessment factors
	PNEC	Marine	0.0028 mg/l	Assessment factors
	PNEC	Fresh water sediment	0.614 mg/kg dwt	-
	PNEC	Marine water sediment	0.0614 mg/kg dwt	-
	PNEC	Sewage treatment plant	5 mg/l	Assessment factors
	PNEC	Soil	0.2 mg/kg dwt	-

8.2 Exposure Controls
Appropriate Engineering Controls : Use only with adequate ventilation.

Individual Protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating smoking and using the lavatory and at the end of each working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reuse. Ensure that eyewash stations are close to the work location.

Eye/face protection : Safety glasses with side protection.

Hand protection : 8 hours breakthrough time : Fluor rubber (Viton) (0.70mm)
 >1 hour breakthrough time : Chloroprene, Nitrile rubber (0.2mm)

Skin & Body : Wear suitable protective clothing

Respiratory protection : Wear filter mask, filter type A.

Advice on personal protection is applicable for high exposure levels. Select proper PPE based on a risk assessment of the actual exposure level.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical & chemical properties (Resin)

Physical State : Liquid

Colour : Pale Yellow

Odour : Characteristic

Odour threshold : Not available

pH : Not available

Melting point : Not available

Initial boiling point and boiling range : 145 degrees C

Softening range : Not available

Flash point : 31 degrees C

Evaporation rate : Not available

Flammability, : Not available

Burning time : Not available

Burning Rate : Not available

Upper/lower flammability or explosive limits : Not available

Vapour pressure : Not available

Vapour density : Not available

Relative density : 1.09 (water = 1)

Density (g/cm3) : 1.09 g/cm3 (25 degrees C)

Bulk density : Not available

Solubility : Insoluble in cold water

Solubility in water : Not available

Solubility at room temperature : Not available

Partition co-efficient: n-octanol/water : Not available

Auto ignition temperature : Not available

Decomposition temerature : Not available

Viscosity : Dynamic : 335 to 455 mPa's (335 to 455 cP)

Explosive properties : Not available

Oxidising Properties : Not available

9.2 Information on basic physical & chemical properties (Dibenzoyl peroxide)

Appearance : Free flowing powder

Colour : White

Odour : Faint

Boiling Point range : Not applicable (Decomposes)

Melting point range	:	Not Determined
Flash point	:	Not applicable
Flammability	:	Decomposition products may be flammable
Explosive properties	:	None
Oxidising Properties	:	Not Applicable
Vapour pressure	:	Not Applicable
Density (g/cm3)	:	2290 kg/m3 (20 degrees C / 68 degrees F) Specific gravity = 2.29 (20 degrees C / 68 degrees F)
Bulk density	:	588 kg/m3 (20 degrees C / 68 degrees F)
Solubility in water	:	Insoluble
Solubility in other solvents	:	Not Determined
pH	:	Neutral
Partition co-efficient: n-octanol/water	:	Not Determined
Vapour density	:	Not Applicable
Viscosity	:	Not Applicable
Active oxygen content	:	1.32%
Peroxide content	:	20%
Auto ignition temperature	:	Test Method not applicable (see section 10)
SADT	:	70 degrees C (See section 10)
Explosion limits	:	Not Determined
Volatile %	:	Not Determined

SECTION 10 : STABILITY & REACTIVITY

10.1	Reactivity (RESINS)	:	No specific test data related to reactivity for this product or ingredients
10.2	Reactivity (POWDER)	:	No specific test data related to reactivity for this product or ingredients
10.3	Chemical stability (RESIN)	:	The product is stable
10.4	Chemical stability (POWDER)	:	SADT- (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging used in transport. A dangerous self-accelerating decomposition reaction, which could result in explosion or fire above 70 degrees C. Contact with oxidising agents can cause decomposition below 70 degrees C. Containers must be sealed at all times when not in use.
10.5	Possibility of hazardous reactions (RESIN)	:	Under normal storage conditions, hazardous reactions will not occur
10.6	Possibility of hazardous reactions (POWDER)	:	Under normal storage conditions, hazardous reactions will not occur
10.7	Conditions to Avoid (RESIN)	:	Avoid all sources of ignition. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat sources.
10.8	Conditions to Avoid (POWDER)	:	Avoid shock and friction. A high degree of confinement should be avoided.
10.9	Incompatible materials (POWDER)	:	Avoid contact with rust, iron and copper. Contact with incompatible materials such as acids, alkalis, heavy metals & reducing agents will result in hazardous decomposition. Do not mix with accelerators.
10.1	Hazardous decomposition products (RESIN)	:	No specific data.
10.11	Hazardous decomposition products (POWDER)	:	Benzoic acids, benzene
10.12	Polymerisation (POWDER)	:	Does not occur

SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information of Toxicological Effects

Product/Ingredient Name	Result	Species	Dose	Exposure
Styrene	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
	LC50 Inhalation	Rat	12 g/m3	4 hours
	Vapour			
1,4 naphthoquinone	LC50 Inhalation dusts and mists	Rat	46 mg/m3	4 hours
	LD50 Dermal	Rat	202 mg/kg	-
	LD50 Oral	Rat	190 mg/kg	-
Dibenzoylperoxide 78%	LD50 Oral	Rat	5000 mg/kg	-
	LC50 Inhalation	Rat	24.3 mg/l	4 hours

Note: No toxicological information on the Dibenzoyl peroxide was available at 20%. The above test was carried out at 78%

Acute Toxicity estimates (RESIN)

Route	ATE Value
Inhalation (Gases)	15397.5 ppm
Inhalation (Vapours)	37.64 mg/l
Inhalation (Dusts and mists)	5.133 mg/l

Function	<u>Irritation / corrosion</u>	Powder
Skin	Resin	None at 4 hours exposure time
Eyes	Not Available	Moderate
Respiratory	Not Available	None
Sensitization	Not Available	Possible by skin contact
Genotoxicity	Not Available	Ames test --- None
Carcinogenicity	Not Available	Not available
Teratogenicity	Not Available	Not available

Specific Target organ Toxicity (Single exposure)

Product / Ingredient name	Category	Route of Exposure	Target Organs
Styrene	Category 3	Not Determined	Respiratory tract irritation
1.4 naphthoquinone	Category 3	Not Determined	Respiratory tract irritation

Specific Target organ Toxicity (Repeated exposure)

Product/ingredient name	Category	Route of Exposure	Target Organs
Styrene	Category 1	Inhalation	Ears

Potential acute health effects

Inhalation	:	Harmful if inhaled. May cause respiratory irritation
Ingestion	:	Irritating to mouth, throat & stomach
Skin contact	:	Causes skin irritation
Eye Contact	:	Causes serious eye irritation

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	Adverse symptoms may include the following: Respiratory Tract irritation coughing
Ingestion	:	No specific data
Skin contact	:	Adverse symptoms may include the following: Irritation Redness
Eye Contact	:	Adverse symptoms may include the following: Pain or irritation Watering Redness
General	:	Causes damage to organs through prolonged or repeated exposure if inhaled.
Carcinogenicity	:	No known effects or critical hazards
Mutagenicity	:	No known effects or critical hazards
Teratogenicity	:	No known effects or critical hazards
Developmental effects	:	No known effects or critical hazards
Fertility effects	:	No known effects or critical hazards

Classification

Product / Ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
Styrene	A4	2B	-	-	-	-
1.4 naphthoquinone	A3	3	-	-	-	-

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity				
Product/ingredient name	Result	Species	Exposure	Effects
Styrene	Acute EC50 4.9 mg/l	Algae	72 hours	-
	Acute LC50 4.02 mg/l	Fish - Fathead minnow	96 hours	-
	Chronic NOEC 1.01 mg/l	Daphnia - Daphnia magna	21 days	-
1.4 naphthoquinone	EC50 0.011mg/l	Algae	72 hours	-
Dibenzoylperoxide 78%	Acute EC50 2.91 mg/L Fresh water	Daphnia	48 hours	-
	Acute LC50 2.0 mg/l	Poecilia reticulata	96 hours	-
	Acute EC50 - activated sludge respiration inhibition test 35 mg/l	Bacteria		-

12.2 Persistence and degradability

Product / Ingredient name	Aquatic half life	Photolysis	Biodegradability
Styrene	-	-	Readily
Dibenzoylperoxide 78%	-	-	Readily

12.3 Bioaccumulative potential

Product / Ingredient name	Log P	BCF	Potential
Styrene	2.95		Low
1.4 naphthoquinone	1.71	-	Low
Dibenzoylperoxide 78%	-	-	-

12.4 Mobility in soil

Soil/water partition coefficient (Koc)	:	Not available
Mobility	:	Not available

12.5 Results of PBT and vPvB assessment

PBT	:	Not applicable
vPvB	:	Not applicable

12.6 Other adverse effects

No known significant effects or critical hazards.



SECTION 13: DISPOSAL CONSIDERATIONS

The information in this section contains generic advice and guidance. The list of identified uses in section 1 should be consulted for any available use-specific information provided in Exposure scenarios.

13.1 Waste Treatment Methods

Product	:	
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Empty containers may retain some of the product residue. The container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of the product, solutions and by-products should at all times comply with the requirements of the environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and contact with soil, waterways, drains and sewers.
Hazardous waste	:	The classification of the product may meet criteria for hazardous waste.
Packaging	:	
Methods of disposal	:	The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	:	This material and its containers must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned and rinsed out. Empty containers may contain product residue. Vapour from the residue may create a highly flammable or explosive atmosphere within the container. Do not cut, weld or grind the container unless they have been cleaned thoroughly. Avoid dispersal of spilt material and contact with soil, waterways, drains and sewers.

SECTION 14: TRANSPORT INFORMATION

14.1 UN Number	UN3269		UN1866	
14.2 UN Proper Shipping name	Polyester Kit		Bulk Resin	
14.3 Transport hazard Class				
14.4 Packing Group	III		III	
14.5 Environmental Hazards	No		No	
14.6 Special precautions for the end user	Not available		Not Available	
Additional Information	Flashpoint 31 degrees C		Flashpoint 31 degrees C	

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health & environmental regulations/legislation specific for the mixture.

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed

Annex XVII - Restrictions on the manufacture, placing on the market and use of dangerous substances, mixtures and articles.

Not Applicable

15.2 Chemical safety Assessment : Not applicable

SECTION 16: OTHER INFORMATION

Procedure used to derive the classification according to regulation (EC) No 1272/2008 [CLP/GHS]

Classification	Justification
Flam Liq. 3, H226	On basis of test data
Acute Tox. 4, H332	Calculation methods
Skin Irrit. 2 H315	Calculation methods
Eye Irrit. 2, H319	Calculation methods
STOT SE 3, H335	Calculation methods
STOT RE, H372i	Calculation methods

Full text of abbreviated H Statements	Classification	Justification
	H226	Flammable liquid & vapour
	H302	Harmful if swallowed
	H315	Causes skin irritation
	H317	May cause allergic skin reaction
	H318	Causes serious eye damage
	H319	Causes serious eye irritation
	H332	Harmful if inhaled
	H335	May cause respiratory irritation
	H372i	Causes damage to organs through prolonged or repeated exposure if inhaled.

Full text of classifications [CLP/GHS]	Classification	Justification
Acute Tox 4, H302	ACUTE TOXICITY: ORAL - Category 4	
Acute tox 4, H332	ACUTE TOXICITY : INHALATION - Category 4	
Eye Dam. 1, H318	SERIOUS EYE DAMAGE / EYE IRRITATION Category 1	
Eye Irrit. 2, H319	SERIOUS EYE DAMAGE / EYE IRRITATION Category 2	
Flam. Liq. 3, H226	FLAMMABLE LIQUIDS - Category 3	
Skin Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2	
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1	

Abbreviations and Acronyms	Classification	Justification
ATE	Acute Toxicity Estimate	
CLP	Classification, Labelling & Packaging Regulation [Regulation (EC) No. 1272/2008]	
DNEL	Derived No Effect Level	
EUH	(Statement) CLP Specific Hazard Statement	
PNEC	Predicted No Effect Concentration	
RRN	REACH Registration Number	

Sources of Key data Information derived from investigations and literature from raw material suppliers

Training Advice Handling and preparation of the product to be carried out by competent personnel only.

Notice to Reader

The information contained in the Safety Data Sheet is based on data available at the time of publication. The information is intended to aid the user in controlling the handling risks and is not to be construed as a warranty or specification of the product quality. The information may not be or may not altogether be applicable to combinations of the kit with other substances or to particular applications.

The user is responsible for ensuring that appropriate precautions are taken and for satisfying themselves that the data is suitable and sufficient for the product's intended purpose. In case of any unclarity we advise consulting the supplier or an expert.