

## **KMK 2705 UHS 2:1 ULTRA RAPID CLEAR COAT**

Version

1.0

Revision Date:

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

#### **1.1 Product identifier**

Trade name : KMK 2705 UHS 2:1 ULTRA RAPID CLEAR COAT

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

Use of the Substance/Mixture : Clear coating

Recommended restrictions on use : For use in industrial installations or professional treatment only.

#### **1.3 Details of the supplier of the safety data sheet**

Company : Kimakem srl  
Via Don G. Fortuna 82  
36050 Monteviale-Vicenza  
Italia

Telephone : +39 0444 1220020

E-mail address of person responsible for the SDS : info@kimakem.com

#### **1.4 Emergency telephone number**

+39 0444 1220020 (Mon to Fri - 8:30 to 17:30)

### **SECTION 2: Hazards identification**

#### **2.1 Classification of the substance or mixture**

##### **Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### **2.2 Label elements**

##### **Labelling (REGULATION (EC) No 1272/2008)**

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Hazard pictograms

:



Signal word

: Warning

Hazard statements

: H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

Supplemental Hazard Statements

: EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements

: **Prevention:**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe vapours.

P260 Do not breathe spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

**Disposal:**

P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label:

n-butyl acetate

pentaerythritol tetrakis(3-mercaptopropionate)

Derivative of benzotriazol

Reaction product of pentamethyl-piperidyl sebacate

triisotridecyl phosphite

dibutyltin dilaurate

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Paint

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**Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 EUH066	>= 20 - < 30
heptan-2-one	110-43-0 203-767-1 606-024-00-3	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332	>= 10 - < 20
2-butoxyethyl acetate	112-07-2 203-933-3 607-038-00-2 01-2119475112-47	Acute Tox. 4; H302 Acute Tox. 4; H312	>= 1 - < 10
pentaerythritol tetrakis(3-mercaptopropionate)	7575-23-7 231-472-8 01-2119486981-23	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Chronic 1; H410	>= 1 - < 2.5
Derivative of benzotriazol	104810-47-1 400-830-7 607-176-00-3 01-0000015075-76-0017	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.25 - < 1
Reaction product of pentamethyl-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0.25 - < 1
triisotridecyl phosphite	77745-66-5 278-758-9 01-2119487302-40	Skin Sens. 1; H317 Aquatic Chronic 4; H413	>= 0.25 - < 1
dibutyltin dilaurate	77-58-7 201-039-8 01-2119496068-27	Muta. 2; H341 Repr. 1B; H360FD STOT SE 1; H370 STOT RE 1; H372 Skin Corr. 1C; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Skin Sens. 1; H317	>= 0.1 - < 0.25

For explanation of abbreviations see section 16.

**SECTION 4: First aid measures**
**4.1 Description of first aid measures**

General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.

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	Do not leave the victim unattended.
If inhaled	: If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	: If on skin, rinse well with water. If on clothes, remove clothes.
In case of eye contact	: Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

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

Symptoms	: Inhalation may provoke the following symptoms: Headache Vertigo Fatigue Weakness Skin contact may provoke the following symptoms: Redness Pain Ingestion may provoke the following symptoms: Abdominal pain Nausea Vomiting Diarrhoea
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### **4.3 Indication of any immediate medical attention and special treatment needed**

Treatment	: No information available.
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## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media	: Alcohol-resistant foam Carbon dioxide (CO <sub>2</sub> ) Dry chemical
Unsuitable extinguishing media	: High volume water jet

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### **5.2 Special hazards arising from the substance or mixture**

- Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : No hazardous combustion products are known

### **5.3 Advice for firefighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
For safety reasons in case of fire, cans should be stored separately in closed containments.  
Use a water spray to cool fully closed containers.

## **SECTION 6: Accidental release measures**

### **6.1 Personal precautions, protective equipment and emergency procedures**

- Personal precautions : Use personal protective equipment.  
Remove all sources of ignition.  
Evacuate personnel to safe areas.  
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### **6.2 Environmental precautions**

- Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform respective authorities.

### **6.3 Methods and material for containment and cleaning up**

- Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### **6.4 Reference to other sections**

For contact information in case of emergency, see section 1. For information on safe handling, see section 7. For exposure controls and personal protection measures, see section 8. For subsequent waste disposal, follow the recommendations in section 13.

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### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

- Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours/dust.  
Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Take precautionary measures against static discharges.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.  
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : Wash hands before breaks and at the end of workday.

#### **7.2 Conditions for safe storage, including any incompatibilities**

- Requirements for storage areas and containers : No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Storage period : 12 Months
- Further information on storage stability : No decomposition if stored and applied as directed.

#### **7.3 Specific end use(s)**

- Specific use(s) : For the use of this product do not exist particular recommendations apart from that already indicated.

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

##### **Occupational Exposure Limits**

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m <sup>3</sup>	GB EH40
		STEL	200 ppm 966 mg/m <sup>3</sup>	GB EH40
heptan-2-one	110-43-0	TWA	50 ppm 238 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 475 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 475 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 237 mg/m <sup>3</sup>	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
2-butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 333 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	20 ppm	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	50 ppm	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
dibutyltin dilaurate	77-58-7	TWA	0.1 mg/m <sup>3</sup> (Tin)	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		STEL	0.2 mg/m <sup>3</sup> (Tin)	GB EH40
Further information	Can be absorbed through skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	480 mg/m <sup>3</sup>
heptan-2-one	Workers	Inhalation	Long-term systemic effects	394.25 mg/m <sup>3</sup>
2-butoxyethyl acetate	Workers	Inhalation	Long-term systemic effects	133 mg/m <sup>3</sup>

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dibutyltin dilaurate	Workers	Inhalation	Long-term local effects	0.01 mg/m <sup>3</sup>
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**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection

Material : Solvent-resistant gloves

Skin and body protection

: Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

Appearance : viscous liquid

Colour : colourless

Odour : characteristic

pH : Not applicable

Melting point/range : not determined

Boiling point/boiling range : not determined

Flash point : 25 °C  
Method: ISO 1523, closed cup  
Setaflash

Upper explosion limit / Upper flammability limit : not determined

Lower explosion limit / Lower flammability limit : not determined

Vapour pressure : not determined

Density : 0.992 g/cm<sup>3</sup> (20 °C)  
Method: ISO 2811-2

Solubility(ies)  
Water solubility : immiscible

Viscosity  
Viscosity, dynamic : 177 mPa.s (20 °C)



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Method: ISO 2555

Viscosity, kinematic : > 20.5 mm<sup>2</sup>/s (40 °C)

### **9.2 Other information**

No data available

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No decomposition if stored and applied as directed.

### **10.2 Chemical stability**

No decomposition if stored and applied as directed.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : No decomposition if stored and applied as directed.

Vapours may form explosive mixture with air.

### **10.4 Conditions to avoid**

Conditions to avoid : Heat, flames and sparks.

### **10.5 Incompatible materials**

Materials to avoid : No data available

### **10.6 Hazardous decomposition products**

No data available

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

##### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

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### **Components:**

#### **n-butyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 10,768 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 23.4 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 (Rabbit): 17,600 mg/kg  
Method: OECD Test Guideline 402

#### **heptan-2-one:**

- Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate
- Acute dermal toxicity : LD50 (Rabbit): 12,600 mg/kg  
Method: OECD Test Guideline 402

#### **2-butoxyethyl acetate:**

- Acute oral toxicity : LD50 Oral (Rat): 1,880 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: OECD Test Guideline 403
- Acute dermal toxicity : Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

#### **pentaerythritol tetrakis(3-mercaptopropionate):**

- Acute oral toxicity : LD50 Oral (Rat): 1,000 - 2,000 mg/kg  
Method: OECD Test Guideline 423
- Acute inhalation toxicity : LC50 (Rat): > 3.363 mg/l  
Exposure time: 4 h  
Test atmosphere: gas  
Method: OECD Test Guideline 403

#### **Reaction product of pentamethyl-piperidyl sebacate:**

- Acute oral toxicity : LD50 Oral (Rat): 3,230 mg/kg
- Acute inhalation toxicity : Remarks: No data available
- Acute dermal toxicity : Remarks: No data available

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### **Skin corrosion/irritation**

**Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Serious eye damage/eye irritation**

**Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Respiratory or skin sensitisation**

**Product:**

Result: May cause sensitisation by skin contact.

### **Germ cell mutagenicity**

**Product:**

Germ cell mutagenicity-  
Assessment : Based on available data, the classification criteria are not met.

### **Carcinogenicity**

**Product:**

Carcinogenicity -  
Assessment : Based on available data, the classification criteria are not met.

### **Reproductive toxicity**

**Product:**

Reproductive toxicity -  
Assessment : Based on available data, the classification criteria are not met.

### **STOT - single exposure**

**Product:**

Assessment: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

### **STOT - repeated exposure**

**Product:**

Remarks: Based on available data, the classification criteria are not met.

### **Aspiration toxicity**

**Product:**

Based on available data, the classification criteria are not met.

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### Further information

**Product:**

Remarks: Solvents may degrease the skin.

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**n-butyl acetate:**

- Toxicity to fish : LC50 (Fish): 18 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 32 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 675 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**2-butoxyethyl acetate:**

- Toxicity to fish : LC50 (Fish): 28 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 37 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 1,570 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

**pentaerythritol tetrakis(3-mercaptopropionate):**

- Toxicity to fish : LC50 (Fish): 0.034 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 0.35 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): > 0.12 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

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### **Derivative of benzotriazol:**

- Toxicity to fish : LC50 (Fish): 2.8 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 4 mg/l  
Exposure time: 48 h
- Toxicity to algae : EC50 (Algae): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- EC10 (Algae): 10 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0.78 mg/l  
Exposure time: 21 d  
Species: Daphnia (water flea)

### **Reaction product of pentamethyl-piperidyl sebacate:**

- Toxicity to fish : LC50 (Fish): 0.9 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): 20 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202
- Toxicity to algae : EC50 (Algae): 1.68 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **12.2 Persistence and degradability**

No data available

### **12.3 Bioaccumulative potential**

No data available

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### **Product:**

- Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

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### 12.6 Other adverse effects

**Product:**

Additional ecological information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.  
Toxic to aquatic life with long lasting effects.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : The product should not be allowed to enter drains, water courses or the soil.  
Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Do not re-use empty containers.  
Do not burn, or use a cutting torch on, the empty drum.

## SECTION 14: Transport information

### 14.1 UN number

ADR : 1263  
IMDG : UN 1263  
IATA (Cargo) : UN 1263

### 14.2 UN proper shipping name

ADR : PAINT  
IMDG : PAINT  
IATA (Cargo) : Paint

### 14.3 Transport hazard class(es)

ADR : 3  
IMDG : 3  
IATA (Cargo) : 3

### 14.4 Packing group

ADR  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

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Tunnel restriction code           : (D/E)

**IMDG**

Packing group                   : III  
Labels                           : 3  
EmS Code                       : F-E, S-E

**IATA (Cargo)**

Packing instruction (cargo aircraft)   : 366  
Packing instruction (LQ)               : Y344  
Packing group                       : III  
Labels                               : Flammable Liquids

**14.5 Environmental hazards**

**ADR**

Environmentally hazardous   : yes

**IMDG**

Marine pollutant               : yes

**14.6 Special precautions for user**

Not applicable

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

Not applicable for product as supplied.

**SECTION 15: Regulatory information**

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

		Quantity 1	Quantity 2
P5c	FLAMMABLE LIQUIDS	5,000 t	50,000 t
E2	ENVIRONMENTAL HAZARDS	200 t	500 t

Volatile organic compounds   : < 420 g/l

Directive 2004/42/EC           : Topcoat (420 g/l )

**Other regulations:**

The product is classified and labelled in accordance with EC directives or respective national laws.

**15.2 Chemical safety assessment**

The supplier has not carried out evaluation of chemical safety.

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**SECTION 16: Other information**

**Full text of H-Statements**

EUH066	:	Repeated exposure may cause skin dryness or cracking.
H226	:	Flammable liquid and vapour.
H302	:	Harmful if swallowed.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H332	:	Harmful if inhaled.
H336	:	May cause drowsiness or dizziness.
H341	:	Suspected of causing genetic defects.
H360FD	:	May damage fertility. May damage the unborn child.
H370	:	Causes damage to organs.
H372	:	Causes 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.
H413	:	May cause long lasting harmful effects to aquatic life.

**Full text of other abbreviations**

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Acute aquatic toxicity
Aquatic Chronic	:	Chronic aquatic toxicity
Flam. Liq.	:	Flammable liquids
Muta.	:	Germ cell mutagenicity
Repr.	:	Reproductive toxicity
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitisation
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure
2000/39/EC	:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	:	Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -



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International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

Sources of key data used to : <http://echa.europa.eu>, <http://eur-lex.europa.eu>  
compile the Safety Data Sheet

### **Classification of the mixture:**

Flam. Liq. 3	H226
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 2	H411

### **Classification procedure:**

Based on product data or assessment
Calculation method
Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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