



**SAFETY DATA SHEET**  
according to Regulation (EC) No. 1907/2006

SDS # : 30501

**CERAN HV\_discontinued**

Date of the previous version: 2017-10-31

Revision Date: 2018-08-14

Version 5

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1. Product identifier

<b>Product name</b>	<b>CERAN HV_discontinued</b>
<b>Number</b>	H44
<b>Substance/mixture</b>	Mixture

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

<b>Identified uses</b>	Lubricating grease.
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1.3. Details of the supplier of the safety data sheet

<b>Supplier</b>	A - TOTAL UK LIMITED 183 Eversholt St, Kings Cross London, NW1 1BU UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
	B - TOTAL LUBRIFIANTS 562 Avenue du Parc de L'île 92029 Nanterre Cedex FRANCE Tél: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 84 71

For further information, please contact:

<b>Contact Point</b>	A - HSE
	B - HSE
<b>E-mail Address</b>	A - rm.gb-msds@total.co.uk
	B - rm.msds-lubs@total.com

1.4. Emergency telephone number

Emergency telephone: +44 1235 239670

UK: National Poisons Information Service (NPIS): NHS on 111 or a doctor

Section 2: HAZARDS IDENTIFICATION
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2.1. Classification of the substance or mixture

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**REGULATION (EC) No 1272/2008 \*\*\****For the full text of the H-Statements mentioned in this Section, see Section 2.2. \*\*\****Classification**

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008\*\*\*

Serious eye damage/eye irritation - Category 2\*\*\* - (H319)\*\*\*

2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008\*\*\*

**Signal word**

WARNING\*\*\*

**Hazard Statements \*\*\***

H319 - Causes serious eye irritation\*\*\*

**Precautionary statements**

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention\*\*\*

**Supplemental Hazard Statements**

\*\*\*

EUH208 - Contains Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts, Sulfonic acids, petroleum, calcium salt, Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts. *May produce an allergic reaction\*\*\**2.3. Other hazards**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.\*\*\*

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixture\*\*\***Chemical nature**

Mineral oil of petroleum origin.\*\*\*

**Hazardous components**

\*\*\*

Chemical Name	EC-No	REACH Registration	CAS-No	Weight %	Classification (Reg. 1272/2008)

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		Number			
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts***	274-263-7***	01-2119492616-28	70024-69-0	5-<10	Skin Sens. 1B (H317)
Sulfonic acids, petroleum, calcium salt***	263-093-9***	01-2119488992-18	61789-86-4	3-<5	Skin Sens. 1 (H317)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts***	271-529-4***	01-2119492627-25	68584-23-6	3-<5	Skin Sens. 1 (H317)
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt***	932-231-6***	01-2119560592-37** *	^	1-<2.5	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)***
Calcium tetraborate***	234-511-7***	01-2120771048-52** *	12007-56-6	1-<2.5	Repr. 2 (H361)***

**Additional information** Product containing mineral oil with less than 3% DMSO extract as measured by IP 346.\*\*\*

For the full text of the H-Statements mentioned in this Section, see Section 16.

### Section 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.***
<b>Eye contact</b>	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.***
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.***
<b>Inhalation</b>	Remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.***
<b>Ingestion</b>	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.***
<b>Protection of first-aiders</b>	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.***

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

<b>Eye contact</b>	Causes serious eye irritation.***
<b>Skin contact</b>	Not classified based on available data. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.***
<b>Inhalation</b>	Not classified based on available data.***

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**Ingestion** Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.\*\*\*

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

**Notes to physician** Treat symptomatically.\*\*\*

**Section 5: FIRE-FIGHTING MEASURES**

5.1. Extinguishing media

**Suitable extinguishing media** Carbon dioxide (CO<sub>2</sub>). ABC powder. Foam. Water spray or fog.\*\*\*

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

**Special hazard** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled in confined spaces or at high concentration. Combustion products include sulphur oxides ( SO<sub>2</sub> and SO<sub>3</sub> ) and Hydrogen sulphide H<sub>2</sub>S. Nitrogen oxides (NO<sub>x</sub>). Mercaptans.\*\*\*

5.3. Precautions for fire-fighters

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit.\*\*\*

**Other information** Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**Section 6: ACCIDENTAL RELEASE MEASURES**

6.1. Personal precautions, protective equipment and emergency procedures

**General Information** Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.\*\*\*

6.2. Environmental precautions

**General Information** Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.\*\*\*

6.3. Methods and material for containment and cleaning up

**Methods for containment** If necessary dike the product with dry earth, sand or similar non-combustible materials.\*\*\*

**Methods for cleaning up** Dispose of contents/container in accordance with local regulation. In case of soil

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contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.\*\*\*

6.4. Reference to other sections

**Personal protective equipment** See Section 8 for more detail.

**Waste treatment** See section 13.

**Section 7: HANDLING AND STORAGE**7.1. Precautions for safe handling

**Advice on safe handling** For personal protection see section 8. Use only in well-ventilated areas. Avoid contact with skin, eyes and clothing.\*\*\*

**Prevention of fire and explosion** Take precautionary measures against static discharges.\*\*\*

**Hygiene measures** Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Provide regular cleaning of equipment, work area and clothing. Do not use abrasives, solvents or fuels. Do not dry hands with rags that have been contaminated with product. Do not put product contaminated rags into workwear pockets.\*\*\*

7.2. Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. Preferably keep in the original container. Otherwise, reproduce all the statutory information from the labels onto the new container. Do not remove the hazard labels of the containers (even if they are empty). Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts. Store at room temperature. Protect from moisture.\*\*\*

**Materials to avoid** Strong oxidising agents.\*\*\*

7.3. Specific use(s)

**Specific use(s)** Please refer to Technical Data Sheet for further information.\*\*\*

**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**8.1. Control parametres

**Exposure limits** Mineral oil mist:  
USA: OSHA (PEL) TWA 5 mg/m<sup>3</sup>, NIOSH (REL) TWA 5 mg/m<sup>3</sup>, STEL 10 mg/m<sup>3</sup>, ACGIH (TLV) TWA 5 mg/m<sup>3</sup> (highly refined)

**Legend** See section 16

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**Derived No Effect Level (DNEL) \*\*\***
**DNEL Worker (Industrial/Professional)\*\*\***

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts*** 70024-69-0			0.66 mg/m <sup>3</sup> Inhalation 3.33 mg/kg bw/day Dermal	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts*** 68584-23-6			3.33 mg/kg bw/day (dermal) 0.66 mg/m <sup>3</sup> (inhalation)	
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt*** ^			1.7 mg/kg bw/day (Dermal)***	

**DNEL Consumer\*\*\***

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts*** 70024-69-0			0.33 mg/m <sup>3</sup> Inhalation 1.667 mg/kg bw/day Dermal 0.8333 mg/kg bw/day Oral	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts*** 68584-23-6			1.667 mg/kg bw/day (dermal) 0.33 mg/m <sup>3</sup> (inhalation) 0.8333 mg/kg bw/day (oral)	
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt*** ^			85 mg/kg bw/day (Dermal)***	

**Predicted No Effect Concentration (PNEC) \*\*\***

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts*** 70024-69-0	1 mg/l fw 1 mg/l mw 10 mg/l or	723500000 mg/kg dw fw 723500000 mg/kg dw mw	868700000 mg/kg dw		100 mg/l	16.667 mg/kg food
Sulfonic acids, petroleum, calcium salt*** 61789-86-4	1 mg/l fw 1 mg/l mw 10 mg/l or	226000000 mg/kg sediment dw fw 226000000 mg/kg sediment dw mw	271000000 mg/kg soil dw		1000 mg/l	16.667 mg/kg food
Benzenesulfonic acid, C10-16-alkyl	1 mg/l fw 1 mg/l mw	723500000 mg/kg dw fw	868700000 mg/kg dw		100 mg/l	16.667 mg/kg food

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derivs., calcium salts*** 68584-23-6	10 mg/l or	723500000 mg/kg dw mw				
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### 8.2. Exposure controls

#### Occupational Exposure Controls

##### Engineering measures

Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.\*\*\*

##### Personal protective equipment

###### General Information

Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product AS DELIVERED. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.\*\*\*

###### Respiratory protection

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387). Type A/P1. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.\*\*\*

###### Eye protection

Safety glasses with side-shields. EN 166.\*\*\*

###### Skin and body protection

Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing. Type 4/6.\*\*\*

###### Hand protection

Hydrocarbon-proof gloves. Fluorinated rubber. Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.\*\*\*

#### Environmental exposure controls

##### General Information

The product should not be allowed to enter drains, water courses or the soil.

### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1. Information on basic physical and chemical properties

Colour

brown\*\*\*

Physical state @20°C

solid\*\*\*

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<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
Odour		characteristic***	
Odour Threshold		No information available***	
pH		Not applicable***	
Melting point/range		No information available	
Boiling point/boiling range		Not applicable***	
Flash point		Not applicable***	
Evaporation rate		No information available***	
Flammability Limits in Air		***	
Upper ***		No information available***	***
Lower ***		No information available***	***
Vapour pressure		No information available***	
Vapour density		No information available***	
Relative density	0.900***	@ 20 °C***	
Density	900*** kg/m <sup>3</sup> ***	@ 20 °C***	
Water solubility		Insoluble***	
Solubility in other solvents		No information available***	
logPow		No information available***	
Autoignition temperature		No information available***	
Decomposition temperature		No information available	
Viscosity, kinematic ***	***	Not applicable ***	
Explosive properties	Not explosive***		
Oxidising properties	Not applicable***		
Possibility of hazardous reactions	None under normal processing***		

## 9.2. Other information

Freezing point No information available

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

General Information None under normal processing.\*\*\*

### 10.2. Chemical stability

Stability Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

Hazardous reactions No dangerous reaction known under conditions of normal use.\*\*\*

### 10.4. Conditions to avoid



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**Conditions to avoid** Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.\*\*\*

### 10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.\*\*\*

### 10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Nitrogen oxides (NOx). Mercaptans. Combustion products include sulphur oxides ( SO2 and SO3 ) and Hydrogen sulphide H2S.\*\*\*

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

**Skin contact** . Not classified based on available data. May produce an allergic reaction. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.\*\*\*

**Eye contact** . Causes serious eye irritation.\*\*\*

**Inhalation** . Not classified based on available data.\*\*\*

**Ingestion** . Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.\*\*\*

**ATEmix (inhalation-dust/mist)** 41.30\*\*\* mg/l\*\*\*

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts***	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	
Sulfonic acids, petroleum, calcium salt***	> 16000 mg/kg bw (rat)	> 4000 mg/kg (rabbit)	LC50(4h) > 1.9 mg/l (rat - aerosol)
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts***	> 5000 mg/kg (Rat - OECD 401)	> 5000 mg/kg bw (rabbit - OECD 402)	> 1.9 mg/l (Rat - aerosol-OECD 403)
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt***	LD50 4445 mg/kg bw (rat)***	LD50 2000 mg/kg bw (rat)***	
Calcium tetraborate***	LD50 5600 mg/kg (Rat)***		

#### Sensitisation

**Sensitisation** Not classified based on available data. The supplier of one or more of the components contained within this formulation has indicated that he has data on the components and/or similar mixtures, which confirms that at the concentration used, classification is not required. Contains sensitizer(s). May produce an allergic reaction.\*\*\*

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### Specific effects

<b>Carcinogenicity</b>	Not classified based on available data.***
<b>Mutagenicity</b>	***
<b>Germ cell mutagenicity</b>	Not classified based on available data.***
<b>Reproductive toxicity</b>	Not classified based on available data.***

### Repeated dose toxicity

### Target Organ Effects (STOT)

<b>Specific target organ systemic toxicity (single exposure)</b>	Not classified based on available data.***
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<b>Specific target organ toxicity - repeated exposure</b>	Not classified based on available data.***
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<b>Aspiration toxicity</b>	Not classified based on available data.***
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### Other information

<b>Other adverse effects</b>	Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).***
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## Section 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

Not classified based on available data.\*\*\*

### Acute aquatic toxicity - Product Information\*\*\*

No information available.\*\*\*

### Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts*** 70024-69-0	EC50 (72h) > 1000 mg/l (Pseudokirchnerella subcapitata - static)	EC50 (48h) > 1000 mg/l (Daphnia magna - static)	LL50 (96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203)	
Sulfonic acids, petroleum, calcium salt*** 61789-86-4	EC50(72h) > 1000 mg/l (Pseudokirchnerella subcapitata)	EC50(48h) > 1000 mg/l (Daphnia magna - OECD 202)	LC50(96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203)	
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts*** 68584-23-6	EL50(72h) > 1000 mg/l (Pseudokirchneriella subcapitata)	EL50(48h) > 1000 mg/l (Daphnia magna)	LL50(96h) > 10000 mg/l (Cyprinodon variegatus - OECD 203)	
Benzenesulfonic acid, C10-13-alkyl derivs., Ca	EC50 (96h) 29 mg/l Pseudokirchneriella	EC50 (48 h) 2.9 mg/l EC50 (24 h) 3.58 mg/l	LC50 (96h) >1 - <10 mg/l (OECD 203)***	

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Salt*** ^	subcapitata)***	(Daphnia magna - OECD 202)***		
Calcium tetraborate*** 12007-56-6		EC50 (48h) >100 mg/l***		

### Chronic aquatic toxicity - Product Information

No information available.\*\*\*

### Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Benzenesulfonic acid, C10-13-alkyl derivs., Ca Salt*** ^	NOEC (96h) 500 µg/l LOEC (96h) 1 mg/l***	NOEC (48h) 379 µg/l LOEC (48h) 5.6 mg/l (Daphnia magna) NOEC (21d) 1.18 mg/l***	NOEC (72h) 0.23 mg/l ***	
Calcium tetraborate*** 12007-56-6	EC50 (72h) >100 mg/l EC10 (72h) 79 mg/l***			

### Effects on terrestrial organisms

No information available.\*\*\*

### 12.2. Persistence and Degradability

#### **General Information**

No information available.

### 12.3. Bioaccumulative potential

#### **Product Information**

No information available.\*\*\*

#### **logPow**

No information available.\*\*\*

#### **Component Information**

No information available.\*\*\*

### 12.4. Mobility in soil

#### **Soil**

Given its physical and chemical characteristics, the product has no soil mobility.\*\*\*

#### **Air**

Loss by evaporation is limited.\*\*\*

#### **Water**

The product is insoluble and floats on water.\*\*\*

### 12.5. Results of PBT and vPvB assessment

#### **PBT and vPvB assessment**

No information available.\*\*\*

### 12.6. Other adverse effects

#### **General Information**

No information available.\*\*\*

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**Section 13: DISPOSAL CONSIDERATIONS**13.1. Waste treatment methods**Waste from residues / unused products**

Should not be released into the environment. Do not empty into drains. Dispose of in accordance with the European Directives on waste and hazardous waste.\*\*\*

**Contaminated packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal.\*\*\*

**EWC Waste Disposal No**

According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used. The following Waste Codes are only suggestions: 12 01 12.\*\*\*

**Other information**

Refer to section 8 for safety and protective measures for disposal personnel.\*\*\*

**Section 14: TRANSPORT INFORMATION**ADR/RID

not regulated

IMDG/IMO

not regulated

ICAO/IATA

not regulated

ADN

not regulated

**Section 15: REGULATORY INFORMATION**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Further information

No information available\*\*\*

15.2. Chemical Safety Assessment**Chemical Safety Assessment**

No information available\*\*\*

15.3. National regulatory information

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**The United Kingdom**

- Avoid exceeding occupational exposure limits (see section 8).

**Ireland**

- Avoid exceeding occupational exposure limits (see section 8).

**Section 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H361 - Suspected of damaging fertility or the unborn child

H412 - Harmful to aquatic life with long lasting effects\*\*\*

**Abbreviations, acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

dw = dry weight

fw = fresh water

mw = marine water

or = occasional release

**Legend Section 8**

TWA: Time Weight Average

STEL: Short Time Exposure Limit

+

Sensitiser

\*\*

Hazard Designation

M:

Mutagen

\*

Skin designation

C:

Carcinogen

R:

Toxic to reproduction

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Revision Note

This product is no more sold. This SDS is the last updated version available for this product.\*\*

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

This safety data sheet serves to complete but not to replace the technical product sheets. The information contained herein is given in good faith and is accurate to the best of knowledge at the date indicated above. It is understood by the user that any use of the product for purposes other than those for which it was designed entails potential risk. The information given herein in no way dispenses the user from knowing and applying all provisions regulating his activity. The user bears sole liability for the precautions required when using the product. The regulatory texts indicated herein are intended to aid the user to fulfil his obligations. This list is not to be considered complete and exhaustive. It is the user's responsibility to ensure that he is subject to no other obligations than those mentioned.

End of Safety Data Sheet

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