



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

SDS # : 080302

**CERAN XM 460**

Date of the previous version: not applicable

Revision Date: 2013-10-25

Version 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING
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1.1. Product identifier

<b>Product name</b>	<b>CERAN XM 460</b>
<b>Number</b>	MWK
<b>Pure 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>	TOTAL UK LIMITED One Euston Square 40 Melton Street. London. NW1 2FD UNITED KINGDOM Tel: +44 (0)20 7339 8000 Fax: +44 (0)20 7339 8033
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For further information, please contact:

<b>Contact Point</b>	Specific Product Related Info : 01977 636200
<b>E-mail Address</b>	rm.gb-msds@total.co.uk

1.4. Emergency telephone number

+33 1 49 00 00 49 (24h/24, 7d/7)  
Total UK - + 44 (0) 20 7339 8000  
For bitumen only : Total Bitumen --+44 (0) 17 7272 9302

2. HAZARDS IDENTIFICATION
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2.1. Classification of the substance or mixture**REGULATION (EC) No 1272/2008**

*For the full text of the H-Statements mentioned in this Section, see Section 2.2.*

**DIRECTIVE 67/548/EEC or 1999/45/EC**

*For the full text of the R-phrases mentioned in this Section, see Section 16.*



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The substance/mixture is non-dangerous in accordance with Directive(s) 67/548/EEC with amendments and/or 1999/45/EC with amendments

**Symbol(s)**  
Not classified

2.2. Label elements

**Labelled according to** Not classified/No labelling required

**R-phrase(s)**  
None

**S-phrase(s)**  
None  
Safety data sheet available on request.

2.3. Other hazards

**Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.

**Environmental properties** Should not be released into the environment.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixture

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	Classification (Dir. 67/548)	GHS Classification
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	271-529-4	no data available	68584-23-6	<4	Xi;R36	Eye Irrit. 2 (H319)
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.	287-494-3	01-2119490234-40	85536-14-7	<2	C;R34 Xn;R22	Skin Corr. 1B (H314) Acute Tox. 4 (H302)
Sulfonic acids, petroleum, calcium salt	263-093-9	no data available	61789-86-4	<2	Xi;R36	Eye Irrit. 2 (H319)
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	274-263-7	01-2119492616-28	70024-69-0	<2	Xi;R36	Eye Irrit. 2 (H319)

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

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



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## 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>	Rinse thoroughly with plenty of water, also under the eyelids.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash skin with soap and water. Wash contaminated clothing before reuse. High pressure jets may cause skin damage. Take victim immediately to hospital.
<b>Inhalation</b>	Move to fresh air.
<b>Ingestion</b>	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or poison control centre immediately.

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

<b>Eye contact</b>	Not classified.
<b>Skin contact</b>	Not classified. 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. Inhalation of vapours in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

4.3. Indication of immediate medical attention and special treatment needed, if necessary

<b>Notes to physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ). ABC powder. Foam. Water spray or fog.
<b>Unsuitable Extinguishing Media</b>	Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture



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**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.

### 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.

## 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. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained.

### 6.3. Methods and materials for containment and cleaning up

**Methods for cleaning up** Dam 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). Collect free product with suitable mechanical means. Keep in suitable, closed containers for disposal.

### 6.4. Reference to other sections

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

**Waste treatment** See section 13.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

**Advice on safe handling** When using, do not eat, drink or smoke. For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.



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<b>Prevention of fire and explosion</b>	Take precautionary measures against static discharges. Ground/bond containers, tanks and transfer/receiving equipment.
<b>Hygiene measures</b>	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. 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

<b>Technical measures/Storage conditions</b>	Keep away from food, drink and animal feedingstuffs. Keep in a banded 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. Protect from frost, heat and sunlight. Protect from moisture.
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<b>Materials to avoid</b>	Strong oxidising agents.
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7.3. Specific use(s)

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parametres

<b>Exposure limits</b>	oil mist : 10mg/m <sup>3</sup> , for 15 minutes; oil mist : 5mg/m <sup>3</sup> , for 8 hours
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<b>Legend</b>	See section 16
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**DNEL Worker (Industrial/Professional)**

Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
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, 4-C10-13-sec-alkyl derivs. 85536-14-7			12 mg/m <sup>3</sup> Inhalation 170 mg/kg Dermal	12 mg/m <sup>3</sup> Inhalation
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	

**DNEL Consumer**

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Chemical Name	Short term, systemic effects	Short term, local effects	Long term, systemic effects	Long term, local effects
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, 4-C10-13-sec-alkyl derivs. 85536-14-7			3 mg/m <sup>3</sup> Inhalation 85 mg/kg Dermal 0.85 mg/kg bw/day Oral	3 mg/m <sup>3</sup> Inhalation
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	

### Predicted No Effect Concentration (PNEC)

Chemical Name	Water	Sediment	Soil	Air	STP	Oral
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts 68584-23-6	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
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	0.287 mg/l fw 0.0287 mg/l mw 0.0167 mg/l or	0.287 mg/kg dw fw 0.287 mg/kg dw mw	35 mg/kg dw		3.43 mg/l	
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			100 mg/l	16.667 mg/kg food

## 8.2. Exposure controls

### Occupational Exposure Controls

#### Engineering measures

Apply technical measures to comply with the occupational exposure limits. 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

If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.



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<b>Respiratory protection</b>	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). The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.
<b>Eye protection</b>	If splashes are likely to occur, wear: Safety glasses with side-shields.
<b>Skin and body protection</b>	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
<b>Hand protection</b>	Hydrocarbon-proof gloves. 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. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the EC approved gloves.

**Environmental exposure controls**

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

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Colour</b>		amber	
<b>Physical state @20°C</b>		solid	
<b>Odour</b>		characteristic	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
<b>pH</b>		not applicable	
<b>Boiling point/boiling range</b>		not applicable	
<b>Flash point</b>		No information available	
<b>Evaporation rate</b>		not applicable	
<b>Flammability Limits in Air</b>		No information available	
<b>Vapour pressure</b>		not applicable	
<b>Vapour density</b>		not applicable	
<b>Density</b>		No information available	
<b>Water solubility</b>		Insoluble	
<b>Solubility in other solvents</b>		Soluble in many common organic solvents	
<b>logPow</b>	No information available		
<b>Autoignition Temperature</b>		not applicable	
<b>Viscosity, kinematic</b>	460 mm <sup>2</sup> /s	@ 40 °C	
<b>Explosive properties</b>	Not explosive		
<b>Oxidising Properties</b>	not applicable		
<b>Possibility of hazardous reactions</b>	not applicable		

**9.2. Other information**



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<b>Penetration index</b>	280 - 310 (1/10mm)	I-2137
<b>Drop point</b>	300 °C	I-396

**10. STABILITY AND REACTIVITY**10.1. Reactivity10.2. Chemical stability

**Stability** Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

**Hazardous reactions** None under normal processing.

10.4. Conditions to Avoid

**Conditions to Avoid** Heat (temperatures above flash point), sparks, ignition points, flames, static electricity.

10.5. Incompatible materials

**Materials to avoid** Strong oxidising agents.

10.6. Hazardous Decomposition Products

**Hazardous Decomposition Products** None under normal use. Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

**11. TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**Acute toxicity Local effects Product Information**

**Skin contact** . Not classified. 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** . Not classified.

**Inhalation** . Not classified. Inhalation of vapours in high concentration may cause irritation of respiratory system.

**Ingestion** . Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.



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**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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, 4-C10-13-sec-alkyl derivs.	LD50 > 200 - 2000 mg/kg (rat - OECD 401)		
Sulfonic acids, petroleum, calcium salt	> 5000 mg/kg ( Rat )	> 4000 mg/kg ( Rabbit )	
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	LD50 > 5000 mg/kg (OECD 401)	LD50 > 2000 mg/kg (OECD 402)	

**Sensitisation**

**Sensitisation** Not classified as a sensitizer.

**Specific effects**

**Carcinogenicity** This product is not classified carcinogenic.  
**Mutagenicity** This product is not classified as mutagenic.  
**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.  
**Repeated Dose Toxicity**

**Subchronic Toxicity** No information available.

**Target Organ Effects (STOT)**

**Target Organ Effects (STOT)** No information available.

**Other information**

**Other adverse effects** Characteristic skin lesions (oil blisters) may develop following prolonged and repeated exposures (contact with contaminated clothing).

**12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Not classified.

**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, 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)	



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Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. 85536-14-7	EC50 (72h) > 10 - 100 mg/l (Desmodesmus subspicatus - OECD 201)	EC50 (48h) > 1 - 10 mg/l (Daphnia magna - OECD 202)	LC50 (96h) > 1 - 10 mg/l (Cyprinus carpio - OECD 203)	
Sulfonic acids, petroleum, calcium salt 61789-86-4		EC50 (48h) > 100 mg/l Daphnia magna (OECD 202)	LC50 (96h) > 10000 mg/l Cyprinodon variegatus (OECD 203)	
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)	

**Chronic aquatic toxicity - Product Information**

No information available.

**Chronic aquatic toxicity - Component Information**

No information available.

**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**

Chemical Name	log Pow
Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. - 85536-14-7	2

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



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<b>General Information</b>	No information available.
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<b>13. DISPOSAL CONSIDERATIONS</b>
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13.1. Waste treatment methods

<b>Waste from residues / unused products</b>	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal.
<b>EWC Waste Disposal No</b>	The following Waste Codes are only suggestions: 12 01 12. 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.

<b>14. TRANSPORT INFORMATION</b>
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<u>ADR/RID</u>	not regulated
<u>IMDG/IMO</u>	not regulated
<u>ICAO/IATA</u>	not regulated
<u>ADN</u>	not regulated

<b>15. REGULATORY INFORMATION</b>
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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

International Inventories

<b>EINECS/ELINCS</b>	-
<b>TSCA</b>	-
<b>DSL</b>	-
<b>ENCS</b>	-
<b>IECSC</b>	-
<b>KECL</b>	-
<b>PICCS</b>	-



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AICS -  
 NZIoC -

**Legend****EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals

Further information

15.2. Chemical Safety Assessment**Chemical Safety Assessment** No information available15.3. National regulatory informationThe United Kingdom

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

Ireland

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

**16. OTHER INFORMATION****Full text of R-phrases referred to under sections 2 and 3**

R36 - Irritating to eyes

R61 - May cause harm to the unborn child

R60 - May impair fertility

R34 - Causes burns

R22 - Harmful if swallowed

**Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

H314 - Causes severe skin burns and eye damage

H302 - Harmful if swallowed

**Abbreviations, acronyms**

Legend Section 8



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+	Sensitiser	*	Skin designation
**	Hazard Designation	C:	Carcinogen
M:	Mutagen	R:	Toxic to reproduction

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Revision Note: \*\*\* Indicates updated section.

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