



## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SDS # : 30026

**EDC 95-11**

Date of the previous version: 2016-04-26

Revision Date: 2016-09-30

Version 3

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

<b>Product name</b>	<b>EDC 95-11</b>
<b>REACH Registration Name</b>	Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics.
<b>REACH Registration Number</b>	01-2119827000-58
<b>Trade name</b>	-
<b>Number</b>	***
<b>Substance/mixture</b>	Substance

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

<b>Identified uses</b>	Manufacture of substances, Distribution of substance, Formulation & (re)packing of substances and mixtures, Use in Oil and Gas field drilling and production operations, Laboratory activities, Water treatment chemical.
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**1.3. Details of the supplier of the safety data sheet**

<b>Supplier</b>	<p>A - 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</p> <p>B - TOTAL FLUIDES 24, cours Michelet. 92800 PUTEAUX. FRANCE Tel: +33 (0)1 41 35 40 00 Fax: +33 (0)1 41 35 82 88</p>
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**For further information, please contact:**

<b>Contact Point</b>	A - HSE
<b>E-mail Address</b>	<p>B - Service QSE : Tel : +33 (0)1 41 35 33 64 / Fax : +33 (0)1 41 35 33 50 Emergency number 24h/24h: +33 (0)1 41 35 65 00 A - rm.gb-msds@total.co.uk</p> <p>B - rmfs.fds@total.com</p>

**1.4. Emergency telephone number**

Emergency telephone: +44 1235 239670  
TOTAL UK Ltd: + 44 (0) 20 7339 8000

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For Lubricants only: TOTAL Lubricants - +44 (0)1977 636200  
 For bitumen only: Total Bitumen -+44 (0) 17 7272 9302

UK: National Poisons Information Service (NPIS): NHS111 or a doctor

**Section 2: HAZARDS IDENTIFICATION****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.

**Classification**

Aspiration toxicity - Category 1 - (H304)

**2.2. Label elements**

Labelled according to REGULATION (EC) No 1272/2008\*\*\*

Contains Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, &lt; 0.03% aromatics

EC-No 934-956-3

**Signal Word**

DANGER

**Hazard Statements**

H304 - May be fatal if swallowed and enters airways

**Precautionary statements**

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTRE/doctor

P331 - Do NOT induce vomiting

**2.3. Other hazards****Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.**Properties Affecting Health** If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).

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**Section 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substance****Chemical nature**

A complex and variable combination of paraffinic and cyclic hydrocarbons having a carbon number range predominantly of C15 to C20 and boiling in the range of approximately 240°C to 335°C.

Chemical Name	EC-No	REACH Registration Number	CAS-No	Weight %	GHS Classification
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	934-956-3***	01-2119827000-58	^	100	Asp. Tox. 1 (H304)

**Additional information**

The EC substance definition and related classification & labelling has been developed in the framework of the Regulation (EC) No 1907/2006 (REACH). For information about the related CAS number see section 15 of this MSDS.  
Total aromatic content : < 0.03 %.

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>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water.
<b>Inhalation</b>	In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.
<b>Ingestion</b>	Do not ingest. If swallowed then seek immediate medical assistance. Risk of product entering the lungs on vomiting after ingestion. In this case, the casualty should be sent immediately to hospital.
<b>Protection of first-aiders</b>	Use personal protective equipment.

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

<b>Eye contact</b>	Burning feeling and temporary redness.
<b>Skin contact</b>	Prolonged or repeated contact may dry skin and cause irritation.
<b>Inhalation</b>	Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes.

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**Ingestion** If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).  
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

**Notes to physician** Treat symptomatically.

**Section 5: FIRE-FIGHTING MEASURES****5.1. Extinguishing media**

**Suitable extinguishing media** Foam. Carbon dioxide (CO<sub>2</sub>). Dry powder.

**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.

**5.3. Precautions for fire-fighters**

**Special protective equipment for fire-fighters** Wear self-contained breathing apparatus and protective suit. In case of a large fire or in confined or poorly ventilated spaces, wear full fire resistant protective clothing and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**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** Ensure adequate ventilation, especially in confined areas. Use personal protective equipment.

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).  
Evacuate non-essential personnel.

Do not touch or walk through spilled material.

**6.2. Environmental precautions**

**General Information** Prevent further leakage or spillage if safe to do so. Dike to collect large liquid spills. The product should not be allowed to enter drains, water courses or the soil. Local authorities

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should be advised if significant spillages cannot be contained. See Section 12 for additional Ecological Information.

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

**Methods for cleaning up** Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Following product recovery, flush area with water.

### 6.4. Reference to other sections

**Personal protective equipment** See Section 8 for more detail.  
**Waste treatment** See section 13.  
**Other information** Remove all sources of ignition.

## Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

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

**Technical measures** Ensure adequate ventilation.  
Do not spray at high pressure (> 3 bar).

**Prevention of fire and explosion** Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke.  
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.  
Regular cleaning of equipment, work area and clothing is recommended. Do not dry hands with rags that have been contaminated with product. Do not use abrasives, solvents or fuels.  
Wash hands before breaks and at the end of workday.

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

**Technical measures/Storage conditions** Design the installations in order to avoid accidental emissions of product (due to seal breakage, for example) onto hot casings or electrical contacts.  
Storage installations should be designed with adequate bunds so as to prevent ground or water pollution in case of leaks or spills.  
Keep in a bunded area. Keep in a dry, cool and well-ventilated place.  
Keep away from open flames, hot surfaces and sources of ignition. Ground/bond containers, tanks and transfer/receiving equipment. Store at room temperature.  
Keep containers tightly closed and properly labelled.

**Materials to avoid** Strong acids. Oxidizing agents.

**Packaging material** Keep only in the original container or in a suitable container for this kind of product. steel.

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Stainless steel.

**7.3. Specific use(s)**

Specific use(s) See exposure scenarios.\*\*\*

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

<b>Exposure limits</b>	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)
<b>Legend</b>	See section 16
<b>Derived No Effect Level (DNEL)</b>	According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.
<b>Predicted No Effect Concentration (PNEC)</b>	PNEC is not meaningful for petroleum substances Aquatic PNECs for hydrocarbon blocks are derived using HC5 method and target lipid model using representative structures

**8.2. Exposure controls****Occupational Exposure Controls**

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

**Personal protective equipment**

<b>General Information</b>	Protective engineering solutions should be implemented and in use before personal protective equipment is considered. These recommendations apply to the product as supplied. If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers.
<b>Respiratory protection</b>	For rescue and maintenance work in storage tanks use self-contained breathing apparatus. In an emergency or for exceptional short-lasting jobs in an atmosphere polluted by the product, it is necessary to wear a protective respiratory equipment. 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.
<b>Hand protection</b>	Impervious gloves, aliphatic hydrocarbon resistant.

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<b>Repeated or prolonged exposure</b>			
Glove material	Glove thickness	Break through time	Remarks
Nitrile rubber	> 0.55 mm	> 480 min	EN 374
Fluorinated rubber Viton (R)	(*)	> 480 min	EN 374 (*) all layer thickness
PVA	(*)	> 480 min	EN 374 (*) all layer thickness

<b>In case of contact through splashing:</b>			
Glove material	Glove thickness	Break through time	Remarks
Nitrile rubber	> 0.38 mm	> 60 min	EN 374
Neoprene	> 0.75 mm	> 60 min	EN 374

**Environmental exposure controls**

**General Information** Do not allow material to contaminate ground water system.

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

Colour		colourless	
Physical state @20°C		Liquid	
Odour		hydrocarbon-like	
Odour Threshold		No information available	
<b>Property</b>	<b>Values</b>	<b>Remarks</b>	<b>Method</b>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	250 - 335 °C 482 - 635 °F		ISO 3405 ISO 3405
Flash point	> 115 °C > 239 °F		ISO 2719 ISO 2719
Evaporation rate		No information available	
Flammability Limits in Air			
Upper	6 %		
Lower	1 %		
Vapour pressure	< 0.003 hPa	@ 20 °C	
Vapour density		No information available	
Relative density		No information available	
Density	815 kg/m <sup>3</sup>	@ 15 °C	ISO 12185
Water solubility		Not applicable	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		Not applicable	
Autoignition temperature	> 230 °C > 446 °F		ASTM E 659 ASTM E 659
Decomposition temperature		No information available	
Viscosity, kinematic	< 20.5 mm <sup>2</sup> /s	@ 40 °C	ISO 3104
Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations		
Oxidising properties	This product is not considered oxidising based on chemical structure considerations		
Possibility of hazardous reactions	None under normal processing		

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## 9.2. Other information

Surface tension	0.0246 N/m	@ 25 °C	EN 14370
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 None under normal processing.

### 10.4. Conditions to Avoid

Conditions to Avoid Heat, flames and sparks. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Materials to avoid Strong acids. Oxidizing 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.

## Section 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity Local effects Product Information

<b>Skin contact</b>	This substance does not meet the EU criteria for classification. Prolonged or repeated contact may dry skin and cause irritation.
<b>Eye contact</b>	This substance does not meet the EU criteria for classification. Burning feeling and temporary redness.
<b>Inhalation</b>	This substance does not meet the EU criteria for classification. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. The inhalation of vapours or aerosols may be irritating for the respiratory tract and for mucous membranes.

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**Ingestion** . If swallowed accidentally, the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey during 48 hours).

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 3160mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5266 mg/m <sup>3</sup> (aerosol) (rat - OECD 403)

**Sensitisation**

**Sensitisation** Not classified as a sensitizer.

**Specific effects**

**Carcinogenicity** The current toxicological knowledge allows to not classify the product as a carcinogen.  
**Mutagenicity** The mutagenic potential of the substance has been extensively studied in a range of in-vivo and in-vitro assays.

**Germ cell mutagenicity** Genetic toxicity : negative.

**Reproductive toxicity** Studies in rats with the substance did not show any effect on reproductive performance.

**Developmental Toxicity** Results of guideline developmental toxicity studies on the substance and OECD developmental toxicity screening studies showed no evidence of developmental toxicity in rats.

**Repeated Dose Toxicity****Target Organ Effects (STOT)**

**Target Organ Effects (STOT)** None known.\*\*\*

**Specific target organ systemic toxicity (single exposure)** This substance does not meet the EU criteria for classification.

**Specific target organ toxicity - repeated exposure** This substance does not meet the EU criteria for classification.

**Aspiration toxicity** The fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).

**Other information**

**Other adverse effects** Frequent or prolonged skin contact destroys the lipoid cutaneous layer and may cause dermatitis.

**Section 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

Not classified.

**Acute aquatic toxicity - Product Information**

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Not applicable.

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates.	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^	ErL50 (72h) > 10000 mg/l (Skeletonema costatum - ISO 10253)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	LL50 (96h) > 1028 mg/l (Scophilthalmus maximus - OECD 203)	

**Chronic aquatic toxicity - Product Information**

Not applicable.

**Chronic aquatic toxicity - Component Information**

No information available.

**Effects on terrestrial organisms**

No information available.

**12.2. Persistence and Degradability****General Information**

Readily biodegradable ( 74 % after 28 days).

Biodegradation							
Type	Method	Sampling time	Specific effects	Values	Unit	Biodegradability	Source
	OECD 306	28 days		74	%	Readily biodegradable	

**12.3. Bioaccumulative potential****Product Information**

Substance is a UVCB. Standard tests for this endpoint are not appropriate.

**logPow**

Not applicable

**Component Information**

Not applicable.

**12.4. Mobility in soil****Soil**

Given its physical and chemical characteristics, the product generally shows low soil mobility.

**Air**

Volatilisation is dependent on Henry's Constant which is not applicable to UVCB.\*\*\*

**Water**

The product is insoluble and floats on water.

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

This substance is considered not to be PBT and vPvB.

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**12.6. Other adverse effects**

**General Information** No information available.

**Section 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

<b>Waste from residues / unused products</b>	Dispose of as hazardous waste in compliance with local and national 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>	Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

**Section 14: TRANSPORT INFORMATION**

<b>ADR/RID</b>	not regulated
<b>IMDG/IMO</b>	not regulated
<b>ICAO/IATA</b>	not regulated
<b>ADN</b>	not regulated

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

The EC substance definition is included in the CAS related number description for global inventory entries

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Related CAS number** 64742-46-7

**International Inventories**

The substance is listed or exempted from listing in the following inventories:  
Europe (EINECS/ELINCS/NLP)  
U.S.A. (TSCA)

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Canada (DSL/NDSL)  
 Australia (AICS)  
 Korea (KECL)  
 China (IECSC)  
 Japan (ENCS)  
 Philippines (PICCS)  
 New Zealand (NZIoC)  
 Taiwan (TCSI)\*\*\*

**Further information**

No information available

**15.2. Chemical Safety Assessment**

**Chemical Safety Assessment** A Chemical Safety Assessment has been carried out for this substance.

**15.3. National regulatory information****The United Kingdom**

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

**Ireland**

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

**Section 16: OTHER INFORMATION****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

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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

\*

C:

R:

Skin designation

Carcinogen

Toxic to reproduction

**Revision Date:** 2016-09-30

**Revision Note** (M)SDS sections updated: 1. 3. 7. 11. 15. 16. Exposure scenario.\*\*\*

**Further information** Other uses than these listed under section 1.2 may have been foreseen for the substance(s) contained in the product. Please contact us if your use is not listed under section 1.2.

**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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