SAFETY DATA SHEET

according to the Global Harmonized System

SDS # : 30026

EDC 95-11

Issuing date: no data available **Revision Date:** *2014-12-16* **Version** *1*

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

Product name **EDC 95-11**
Trade name -
Substance/mixture Substance

Use of the Substance/Preparation

Identified uses 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.

Company/Undertaking Identification

Supplier

TOTAL FLUIDES
24, cours Michelet.
92800 PUTEAUX.
FRANCE
Tel: +33 (0)1 41 35 40 00
Fax: +33 (0)1 41 35 82 88

For further information, please contact:
E-mail Address rmfs.fds@total.com

Emergency telephone

Malaysia: 1-800-815-308 (toll-free in country)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Aspiration toxicity - Category 1

GHS Label elements, including precautionary statements

Symbol(s)

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Signal Word **DANGER**

Hazard Statements
H304 - May be fatal if swallowed and enters airways

Precautionary Statements - Response
• IF SWALLOWED: Immediately call a POISON CENTER/doctor
• Do NOT induce vomiting

Precautionary Statements - Storage
• Store locked up

Precautionary Statements - Disposal
• Dispose of contents/container to an approved waste disposal plant

Other hazards which do not result in classification

3. COMPOSITION/INFORMATION ON INGREDIENTS

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
The aromatic content is < 0.03%

Chemical Name	CAS-No	EC-No	Weight %
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	^	934-956-3	100

Additional information Related CAS: 64742-46-7

4. FIRST AID MEASURES

Description of necessary first-aid measures

General advice IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.

Eye contact Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Skin contact Remove contaminated clothing and shoes. Wash off with soap and water.

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Inhalation 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.

Ingestion 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.

Protection of First-aiders Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Skin contact Prolonged or repeated contact may dry skin and cause irritation.

Eye contact Burning feeling and temporary redness.

Inhalation Vapors 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 menbranes.

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 diarrhea.

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flash point See chapter 9. PHYSICAL AND CHEMICAL PROPERTIES

Suitable Extinguishing Media

Suitable Extinguishing Media Foam. Dry powder. Carbon dioxide (CO_2). Water spray.

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

Specific hazards arising from the chemical

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.

Advice for fire-fighters

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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

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

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.

General Information

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 should be advised if significant spillages cannot be contained.

Methods and materials 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.

Other information

Other information	Remove all sources of ignition.

7. HANDLING AND STORAGE

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

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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

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
Stainless steel

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits
Ingredients with workplace control parameters

Appropriate engineering 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.

Individual protection measures, such as personal protective equipment (PPE)

Personal Protective Equipment

General Information
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.

Respiratory protection
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 protective respiratory equipment.
The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

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Eye Protection	If splashes are likely to occur, wear: Safety glasses with side-shields
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots.
Hand Protection	Impervious gloves, aliphatic hydrocarbon resistant

Repeated or prolonged exposure			
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 (*) any thickness
PVA	(*)	> 480 min	EN 374 (*) any thickness

In case of contact through splashing:			
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

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Color	colorless
Physical State @20°C	liquid
Odor	none

Important health safety and environmental information

Property	**Values**	**Remarks**	**Method**
pH		Not applicable	
Boiling point/boiling range	**250 - 330 °C**		ISO 3405
	482 - 626 °F		ISO 3405
Flash point	**115 °C**		ASTM D 93
	239 °F		ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air			
upper	6 %		
Lower	1 %		
Vapor Pressure	0.003 hPa	@ 20 °C	
Vapor density		No information available	
Density	814 kg/m³	@ 20 °C	ISO 12185
Water solubility		Not applicable	

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Solubility in other solvents		No information available	
logPow		Not applicable	
Autoignition temperature	**> 230 °C**		ASTM E 659
	> 446 °F		ASTM E 659
Viscosity, kinematic	3.5 mm2/s	@ 40 °C	ISO 3104

Explosive properties	Not considered explosive based on chemical structure and oxygen balance considerations
Oxidizing Properties	This product is not considered oxidising based on chemical structure considerations
Possibility of hazardous reactions	Not applicable

Other information

Pour point	-27 °C	ASTM D97

10. STABILITY AND REACTIVITY

Reactivity

No dangerous reaction known under conditions of normal use

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

None under normal processing.

Conditions to Avoid

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

Materials to Avoid

Strong acids. Oxidizing agents.

Hazardous Decomposition Products

Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.

11. TOXICOLOGICAL INFORMATION

Acute toxicity - Product Information

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Skin contact Prolonged or repeated contact may dry skin and cause irritation.
Eye contact Burning feeling and temporary redness.
Inhalation Vapors 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 menbranes.
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 diarrhea.

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/m³ (aerosol) (rat - OECD 403)

Aggravated Medical Conditions None known.

Subchronic toxicity

Chronic toxicity

Sensitization Not classified as a sensitizer.
Neurological effects No information available.
Target Organ Effects (STOT) No information available.
Other adverse effects Frequent or prolonged skin contact destroys the lipoacid cutaneous layer and may cause dermatitis.

Specific effects

Carcinogenicity The current toxicological knowledge allows to not classify the product as a carcinogen.

Chemical Name	IARC	European Union	ACGIH
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^		-	

Mutagenicity
None known.

Chemical Name	European Union	Japan
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^	-	

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.

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute aquatic toxicity - Product Information

Not applicable.

Calculation method

EC50 No information available

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

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 (Scophthalamus maximus - OECD 203)	

Chronic aquatic toxicity - Product Information

Not applicable

Chronic aquatic toxicity - Component Information

There are no chronic toxicity data available

Effects on terrestrial organisms

No information available

Persistence and degradability

Readily biodegradable (74 % after 28 days).

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

Bioaccumulative potential

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

logPow Not applicable

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Component Information

Mobility

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

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products	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.

14. TRANSPORT INFORMATION

ADR/RID	Not regulated
IMDG/IMO	Not regulated
ICAO/IATA	Not regulated
ADN	Not regulated
DOT	Not regulated
TDG	Not regulated
MEX	Not regulated

15. REGULATORY INFORMATION

REACH registration No	01-2119827000-58
Related CAS	64742-46-7

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International Inventories

The substance is listed or exempted from listing in the following inventories:
Europe (EINECS/ELINCS/NLP)
U.S.A. (TSCA)
China (IECSC)
Canada (DSL/NDSL)
Japan (ENCS)
Korea (KECL)
Australia (AICS)
Philippines (PICCS)
New Zealand (NZIoC)

Further information

No information available

National regulatory information

16. OTHER INFORMATION

Revision Date:	2014-12-16
Revision Note	(M)SDS sections updated: 4, 8, 10, 11, 12, 15, 16.
Further information	This product is classified as R65 «Harmful: may cause lung damage if swallowed» and/or H304 «May be fatal if swallowed and enters airways». The risk relates to potential for aspiration. The risk arising from aspiration hazard is solely related to the physico-chemical properties of the substance. The risk can therefore be controlled by implementing risk management measures tailored to this specific hazard. An exposure scenario is not required.

Disclaimer

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 Material Safety Data Sheet