SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084999

FLUID D 135

Date of the previous version: 2015-10-23 **Revision Date:** *2015-11-20* **Version** *1.02*

1. IDENTIFICATION

Product identifier

Product name FLUID D 135

Other means of identification

Product Code(s) 084999

Trade name -
Substance/mixture Substance

Recommended use of the chemical and restrictions on use

Identified uses Manufacture of substances. Distribution of substance. Formulation & (re)packing of substances and mixtures. Laboratory activities.

Uses advised against Do not use for any purpose other than the one for which it is intended

Details of the supplier of the safety data sheet

Supplier Address

TOTAL Specialties USA Inc
1201 Louisiana Street, Suite 1800
Houston, TX 77002
Phone: +1 800 323 3198

Contact Point Technical/ HSEQ

E-mail Address specialfluidsusa@total.com

Emergency telephone number

Company Phone Number +1 (713) 483-5039
Company Emergency Phone Number 1-866-GENERA-1 (1-866-436-3721)
Emergency telephone CHEMTREC: +1 800 424 9300 (24h)

2. HAZARDS IDENTIFICATION

Classification

Aspiration toxicity - Category 1

Label elements

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DANGER

Hazard Statements
May be fatal if swallowed and enters airways

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do NOT induce vomiting

Precautionary Statements - Storage
Store locked up

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

Unknown Acute Toxicity
No information available

Hazards not otherwise classified (HNOC)
None known

Other information

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). Prolonged or repeated contact may cause skin irritation.

Environmental properties Should not be released into the environment.

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	Weight %
Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics	^	100

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Additional information Related CAS: 64742-46-7

4. FIRST AID MEASURES

First aid measures for different exposure routes

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.

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 If swallowed, do not induce vomiting - seek medical advice.
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 Non-irritating during normal use.

Eye contact Burning feeling and temporary redness.

Inhalation Vapors inhaled in strong concentration have a narcotic effect on the central nervous system.

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

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

Uniform Fire Code Combustible Liquid: III-B

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

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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.

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge May be ignited by friction, heat, sparks or flames.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Evacuate non-essential personnel.

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.

Other information

Remove all sources of ignition.

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

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.

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.

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.

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.

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

Materials to Avoid
Strong acids. Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

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

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.

Individual protection measures, such as personal protective equipment

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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.
Eye/Face 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	Protective gloves.
Respiratory protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
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

Physical and chemical properties

Color		colorless	
Physical State @20°C		liquid	
Odor		Hydrocarbon-like	
Odor Threshold		No information available	
Property	**Values**	**Remarks**	**Method**
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	**275 - 330 °C**		ISO 3405
	527 - 626 °F		ISO 3405
Flash point	**> 133 °C**		ASTM D 93
	> 271 °F		ASTM D 93.
Evaporation rate		No information available	
Flammability Limits in Air			
upper	6 %		
Lower	1 %		
Vapor Pressure	0.001 hPa	@ 20 °C	calculated
Vapor density		No information available	

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Relative density		No information available	
Density	815 kg/m³	@ 15 °C	ISO 12185
Water solubility		Substance is a UVCB. Standard tests for this endpoint are not appropriate	
Solubility in other solvents		Soluble in many common organic solvents	
logPow		Not applicable	
Autoignition temperature	**> 230 °C**		ASTM E 659
	> 446 °F		ASTM E 659
Decomposition temperature		No information available	
Viscosity, kinematic	<= 20.5 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	None under normal processing		
Other information			
Surface tension	0.0249 N/m	@ 25 °C	EN 14370
Freezing Point		No information available	

10. STABILITY AND REACTIVITY

Reactivity None under normal processing.

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.

Incompatible Materials 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 Product does not present an acute toxicity hazard based on known or supplied information.

Information on likely routes of exposure

Principle Routes of Exposure Inhalation, Ingestion, Eye contact, Skin contact.

ATEmix (oral)	5001 mg/kg
ATEmix (dermal)	5001 mg/kg
Inhalation	

ATEmix (inhalation-dust/mist) 5.3 mg/l

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)

Information on toxicological effects

Skin contact Non-irritating during normal use.

Eye contact Burning feeling and temporary redness.

Inhalation Vapors inhaled in strong concentration have a narcotic effect on the central nervous system.

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.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Not classified.
Serious eye damage/eye irritation Not classified.
Sensitization Not classified as a sensitizer.
Carcinogenicity This product is not classified carcinogenic.

Mutagenicity This product is not classified as mutagenic.
Reproductive toxicity The current toxicological knowledge allows to not classify the product as a toxic to reproduction.
Target Organ Effects (STOT) None known.
STOT-single exposure Not Classified.
STOT - repeated exposure Not Classified.
Aspiration Hazard May be fatal if swallowed and enters airways.

12. ECOLOGICAL INFORMATION

Ecotoxicity
Acute aquatic toxicity - Product Information

Not applicable

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms

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Hydrocarbons, C15-C20, n-alkanes, isoalkanes, cyclics, < 0.03% aromatics ^	ErL50 (72h) > 10000 mg/l (Skeletonema costatum - ISO 10253)	LL50 (96h) > 1028 mg/l (Scophthalamus maximus - OECD 203)	LL50 (48h) > 3193 mg/l (Acartia tonsa - ISO 14669)	

Chronic aquatic toxicity - Product Information

Not applicable

Chronic aquatic toxicity - Component Information

No information available

Effects on terrestrial organisms No information available.

Persistence and degradability

General Information 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

Component Information Not applicable.

Mobility

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

Other adverse effects

General Information No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Dispose of in accordance with local regulations.

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

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14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

Related CAS 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)
Canada (DSL/NDSL)
Australia (AICS)
Korea (KECL)
China (IECSC)
Japan (ENCS)
Philippines (PICCS)
New Zealand (NZIoC)

U.S. Federal Regulations

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	no
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

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Clean Water Act
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA
This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

U.S. State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

No information available

16. OTHER INFORMATION

NFPA	**Health Hazard** 1	**Flammability** 1	**Instability** 0	**Physical and chemical hazards** -
HMIS	**Health Hazard** 1	**Flammability** 1	**Physical Hazard** 0	**Personal protection** X

NFPA (National Fire Protection Association)
HMIS (Hazardous Material Information System)
Hazards are split into categories each with a 0 to 4 rating, 0 meaning no hazard and 4 meaning high hazard

Revision Date: 2015-11-20
Revision Note (M)SDS sections updated: 9, 11

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Abbreviations, acronyms	bw = body weight bw/day = body weight/day GLP = Good Laboratory Practice SCBA = Self Contained Breathing Apparatus UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals 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 LL = Lethal Loading OECD = Organization for Economic Co-operation and Development fw = fresh water mw = marine water or = occasional release dw = dry weight
Legend	Section 8 ACGIH - American Conference of Governmental Industrial Hygienists OSHA - Occupational Safety and Health Administration NIOSH - National Institute for Occupational Safety and Health TLV - Threshold Limit Values PEL - Permissible Exposure Limits IDHL - Immediately Dangerous to Life or Health concentrations TWA - Time Weight Average STEL - Short Term Exposure Limits S* - Skin notation TSCA - Toxic Substance Control Act

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 the safety data sheet