

# SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

**SDS # :** 085844

# **SPIRDANE D 40**

Date of the previous version: 2016-03-24

**Revision Date:** 2016-03-30

Version 1.01

1. IDENTIFICATION			
Product identifier			
Product name	SPIRDANE D 40		
Other means of identification			
Product Code(s)	085844		
Trade name Substance/mixture	- Substance		
Recommended use of the chemica	l and restrictions on use		
Identified uses	Manufacture of substances. Distribution of substance. Formulation & (re)packing of substances and mixtures. Uses in Coatings. Use in Cleaning Agents. Lubricant. Metalworking fluid. Rolling oil. Use as binders and release agents. Use as a fuel. Functional Fluids. Road and construction applications. Laboratory activities. Polymer processing.		
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	v 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 Company Emergency Phone Numb Emergency telephone	+1 (713) 483-5039 1-866-GENERA-1 (1-866-436-3721) +1 866 928 0789 (24h/24, 7d/7) +1 215 207 0061 (24h/24, 7d/7)		

# 2. HAZARDS IDENTIFICATION

## **Classification**

Flammable liquids - Category 3 Specific target organ systemic toxicity (single exposure) - Category 3 Aspiration toxicity - Category 1

## Label elements



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#### **Hazard Statements**

Flammable liquid and vapor May cause drowsiness or dizziness May be fatal if swallowed and enters airways

#### **Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/ spray Use only outdoors or in a well-ventilated area Keep away from heat/sparks/open flames/hot surfaces. - No smoking Keep container tightly closed Ground/bond container and receiving equipment Use explosion-proof electrical/ ventilating / lighting equipment Use only non-sparking tools Take precautionary measures against static discharge Wear protective gloves/protective clothing/eye protection/face protection Keep cool

## Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell Ingestion IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

## **Precautionary Statements - Storage**

Store in a well-ventilated place. Keep container tightly closed 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)

Repeated exposure may cause skin dryness or cracking



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Other information	Vapors may form explosive mixtures with air.
Physical-Chemical Properties	Vapours are heavier than air and may spread near ground level to sources of ignition .
Properties Affecting Health	Repeated exposure may cause skin dryness or cracking.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

# Substance

Chemical nature

A complex and variable combination of paraffinic and cyclic hydrocarbons having a carbon number range predominantly of C9 to C11 and boiling in the range of approximately 130°C to 210°C,

, The aromatic content is < 2%.

Chemical Name	CAS-No	Weight %
Hydrocarbons, C9-C11, n-alkanes, isoalkanes,	٨	100
cyclics, <2% aromatics		

Additional information

Related CAS number: 64742-48-9

# 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 skin 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	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	Non-irritating during normal use.		



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Eye contact	Burning feeling	and temporary redness.		
Inhalation		pors in high concentration may cause irritation of re- ervous system depression with nausea, headache,		
Ingestion		cidentally, the product may enter the lungs due to its velopment of very serious pulmonary lesions (medicated)		
Symptoms		Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.		
Indication of immediate medical a	attention and spec	ial treatment needed, if necessary		
Notes to physician	Treat symptom	atically.		
5. FIRE-FIGHTING MEASUR	RES			
Suitable Extinguishing Media	Foam. Dry pow	der. Carbon dioxide (CO ₂).		
Uniform Fire Code	Combustible Li	quid: II		
Unsuitable Extinguishing Media	Do not use a se	blid water stream as it may scatter and spread fire.		
Special Hazard	carbon monoxi	nbustion and thermolysis may produce gases of vary de, carbon dioxide, various hydrocarbons, aldehyde erous if inhaled in confined spaces or at high concer	s and soot. These may	
Explosion Data				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge		by friction, heat, sparks or flames.		
Protective Equipment and		vear self-contained breathing apparatus pressure-de	-	

# 6. ACCIDENTAL RELEASE MEASURES

Precautions for Firefighters

Personal precautions, protective equipment and emergency procedures

General Information	Use personal protective equipment. Evacuate non-essential personnel. Ensure adequate ventilation, especially in confined areas. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch or walk through spilled material.
Other information	Remove all sources of ignition. Stop all work that requires a naked flame, stop all vehicles, stop all machines and equipment that may cause sparks or flames.

(approved or equivalent) and full protective gear. Evacuate non-essential personnel.



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Environmental precautions				
General Information	product shou	er leakage or spillage if safe to do so. Dike to collect la Id not be allowed to enter drains, water courses or the vised if significant spillages cannot be contained. See S formation.	soil. Local authorities	
Methods and materials for containment and cleaning up				
Methods for cleaning up	Contain spilla earth, diatom local / nation	rking handtools and explosionproof electrical equipmer age, and then collect with non-combustible absorbent m aceous earth, vermiculite) and place in container for di al regulations (see section 13). oduct recovery, flush area with water.	naterial, (e.g. sand,	

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Advice on safe handling	For personal protection see section 8. Use only in well-ventilated areas. Do not breathe vapors or spray mist. Avoid contact with skin, eyes and clothing.
Technical measures	Ensure adequate ventilation. Do not spray at high pressure (> 3 bar) . WHILE MOVING THE PRODUCT:. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Do not allow splash loading and ensure that the product is poured slowly, particularly at the beginning of the operation.
Prevention of fire and explosion	OPERATE ONLY ON COLD AND DEGASSED TANKS IN VENTILATED PREMISES (TO AVOID RISK OF EXPLOSION). Handle away from any source of ignition (open flame and sparks) and heat (hot manifolds or casings). Do not smoke. Use explosionproof electrical equipment. Take precautionary measures against static discharges. Do not use compressed air for filling, discharging or handling. Design installations (machinery and equipment) to prevent burning product from spreading (tanks, retention systems, interceptors (traps) in drainage systems).
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



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Technical measures/Storage conditions	Design the installations in order to avoid accidental emissions of pro- breakage, for example) onto hot casings or electrical contacts. Storage installations should be designed with adequate bunds so as water pollution in case of leaks or spills. Use explosionproof electrical 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. containers, tanks and transfer/receiving equipment. Store at room te Keep containers tightly closed and properly labelled.	s to prevent ground or al equipment. Ground/bond
Packaging material	Keep only in the original container or in a suitable container for this k Stainless steel.	and of product. steel .
Materials to Avoid	Strong acids. Oxidizing agents.	
8. EXPOSURE CONTROLS	S/PERSONAL PROTECTION	
Control parameters		
Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STE (TLV) TWA 5 mg/m³ (highly refined).	EL 10 mg/m³, ACGIH
Advisory OEL	CEFIC-HSPA : 1200 mg/m <sup>3</sup>	
Exposure controls		
Engineering Measures	When working in confined spaces (tanks, containers, etc.), ensure th air suitable for breathing and wear the recommended equipment. Apply technical measures to comply with the occupational exposure	
Individual protection measures,	, such as personal protective equipment	
General Information	Protective engineering solutions should be implemented and in use I protective equipment is considered. These recommendations apply to the product as supplied. If the product is used in mixtures, it is recommended that you contac protective equipment suppliers.	
Eye/Face Protection	If splashes are likely to occur, wear:. Safety glasses with side-shield	S.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots.	
Hand Protection	Protective gloves.	



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Respiratory protection	respiratory pro required for hi	nits are exceeded or irritation is experienced, NIOSH otection should be worn. Positive-pressure supplied gh airborne contaminant concentrations. Respirator cordance with current local regulations.	air respirators may be	
Hygiene measures	contact with th Regular clean with rags that fuels.	plication of strict rules of hygiene by the personnel ene product. When using, do not eat, drink or smoke. Ing of equipment, work area and clothing is recommented with product. Do not use all have been contaminated with product. Do not use all pefore breaks and at the end of workday.	ended. Do not dry hands	

# 9. PHYSICAL AND CHEMICAL PROPERTIES

# Physical and chemical properties

Color Physical State @20°C Odor Odor Threshold		colorless liquid Petroleum solvent No information available	
<u>Property</u> pH Melting point/range	Values_	<u>Remarks</u> Not applicable No information available	<u>Method</u>
Boiling point/boiling range	<b>150 - 205 °C</b> 302 - 401 °F		ISO 3405 ISO 3405
Flash point	> <b>41 °C</b> > 106 °F		ISO 2719 ISO 2719.
Evaporation rate Flammability Limits in Air upper Lower Vapor Pressure Vapor density Relative density Density Water solubility	65 6.5 % 0.6 % 2 hPa 790 kg/m <sup>3</sup>	© 20 °C No information available No information available @ 15 °C Substance is a UVCB. Standard tests for this endpoint are not	DIN 53170 ISO 12185
Solubility in other solvents logPow Autoignition temperature	> 230 °C	appropriate Soluble in many common organic solvents Not applicable This temperature may be significantly lower under particular conditions (slow oxidation on finely divided	ASTM E 659-78
	> 446 °F	materials)	ASTM E 659-78



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Decomposition temperature Viscosity, kinematic Explosive properties Oxidizing Properties Possibility of hazardous reactions <u>Other information</u>		sidered oxidising based on chemic	ASTM D 445 ad oxygen balance considerations cal structure considerations	
Surface tension Freezing Point	0.0237 N/m	@ 25 °C No information available	EN 14370	

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**

# Information on likely routes of exposure

Principle Routes of Exposure	Inhalation, Ingestion, Eye contact, Skin contact.
Symptoms	Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Skin contact	Non-irritating during normal use.
Eye contact	Burning feeling and temporary redness.
Inhalation	Inhalation of vapors in high concentration may cause irritation of respiratory system. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination.
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).

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

# Acute toxicity - Product Information



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**Product Information** 

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

Oral	Not classified.
ATEmix (oral)	5001 mg/kg
Dermal	Not classified
ATEmix (dermal)	5001 mg/kg
Inhalation	Not classified

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ^	LD50 > 5000 mg/kg bw (rat - OECD 401)	LD50 (24h) > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (8h) > 5000 mg/m³ (vapour) (rat - OECD 403)

Skin corrosion/irritation Serious eye damage/eye irritation Sensitization Carcinogenicity	Not classified. Not classified as a sensitizer. This product is not classified carcinogenic.
Mutagenicity Germ Cell Mutagenicity Reproductive toxicity	This product is not classified as mutagenic. Genetic toxicity : negative. The current toxicological knowledge allows to not classify the product as a toxic to reproduction.
Target Organ Effects (STOT) STOT-single exposure STOT - repeated exposure Other adverse effects Aspiration Hazard	Central nervous system (CNS). Vapors may cause drowsiness and dizziness. Not Classified. Repeated exposure may cause skin dryness or cracking. 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	Toxicity to
			other aquatic invertebrates	microorganisms



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Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics       ErL50 (72h) > 1000 mg/l (Pseudokirchneriella subcapitata - OECD 201)       LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss - OECD 203)       EL50 (48h) > 1000 mg/l (Daphnia magna - OECD 202)       -         ^       Subcapitata - OECD 201)       OECD 203)       202)       202)	
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## Chronic aquatic toxicity - Product Information

Not applicable

# Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics ^	NOELR (72h) = 3 mg/l (Pseudokirchneriella subcapitata - biomass - OECD 201) NOELR (72h) = 100 mg/l (Pseudokirchneriella subcapitata - growth rate - OECD 201)	NOELR (21d) = 0.23 mg/l (Daphnia magna - QSAR Petrotox)	NOELR (28d) = 0.13 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	

Effects on terrestrial organisms

No information available.

Persistence and degradability		
General Information	Readily biodegradable ( 80 % after 28 days).	
Bioaccumulative potential		
Product Information	Substance is a UVCB. Standard tests for this endpoint are not appropriate.	
logPow	Not applicable	
Component Information	Not applicable.	
<u>Mobility</u>		
Soil Air Water <u>Other adverse effects</u>	Given its physical and chemical characteristics, the product has no soil mobility. The product evaporates readily The product is insoluble and floats on water	
General Information	No information available	
13. DISPOSAL CONSIDERATIONS		

# Version GNAM



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Waste treatment			
Waste Disposal Methods	Dispose of in accordance with local regulations.		
Contaminated packaging	Empty containers may contain flammable or explosive vapors. Empty containers should be taken to an approved waste handling site for recycling or disposal.		
US EPA Waste Number	D001		

# **14. TRANSPORT INFORMATION**

DOT UN/ID No Proper shipping name Hazard class Packing Group Special Provisions Description Emergency Response Guide Number	UN1268 PETROLEUM DISTILLATES, N.O.S. 3 III 144, B1, IB3, T4, TP1, TP29 UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III 128
TDG UN/ID No Proper shipping name Hazard class Packing Group Description	UN1268 PETROLEUM DISTILLATES, N.O.S. 3 III UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III
MEX UN/ID No Proper shipping name Hazard class Special Provisions Packing Group Description	UN1268 PETROLEUM DISTILLATES, N.O.S. 3 223 III UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III
ICAO/IATA UN/ID No Proper shipping name Hazard class Packing Group Special Provisions Description Excepted Quantity	UN1268 Petroleum distillates, n.o.s. 3 III A3 UN1268, Petroleum distillates, n.o.s., 3, III E1



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Limited quantity	10 L	
IMDG/IMO UN/ID No Proper shipping name Hazard class Packing Group EmS No. Special Provisions Description Excepted Quantity Limited quantity	UN1268 Petroleum distillates, n.o.s. 3 III F-E, S-E 223, 363, 955 UN1268, Petroleum distillates, n.o.s., 3, III E1 5 L	
ADR/RID UN/ID No Proper shipping name Hazard class Packing Group Classification Code Tunnel Restriction Code Special Provisions Description	UN1268 PETROLEUM DISTILLATES, N.O.S. 3 III F1 (D/E) 363 UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, (D/E)	
ADN UN/ID No Proper shipping name Hazard class Packing Group Classification Code Special Provisions Description Hazard Labels Limited quantity Ventilation	UN1268 PETROLEUM DISTILLATES, N.O.S. 3 III F1 363 UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III 3 5 L VE01	
15. REGULATORY INFORMATION		

 

 Related CAS number
 64742-48-9

 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**



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#### **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	Yes
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

#### **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**

<u>NFPA</u>

Health Hazard 1

Health Hazard 1 Flammability 2

Flammability 2 Instability 0

Physical Hazard 0

Physical and chemical hazards - 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



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**Revision Date:** 2016-03-30 **Revision Note** (M)SDS sections updated: 14 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 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