



SAFETY DATA SHEET

according to the Global Harmonized System

SDS # : 084490
Issuing date: 2014-11-25

TRANSTEC 5 85W-140

Date of the previous version: 2015-08-24

Revision Date: 2018-07-17

Version 1.02

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier

Product name TRANSTEC 5 85W-140

Other means of identification

Number DF7
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Manual Transmission Fluid.

Details of the supplier of the safety data sheet

Supplier TOTAL OIL ASIA PACIFIC PTE LTD
331 North Bridge Road
#23-01 Odeon Towers Singapore
188720
Tel: +65 6879 2200
Fax: +65 6879 2203

Importer Oil Intel Limited
56 Whakatu Road, Whakatu
Hastings 4172
NEW ZEALAND
Phone: +64 (06) 871 53 25
Fax: +64 (06) 870 48 90

For further information, please contact:

Contact Point HSE
E-mail Address ms.ap-sds@total.com

Emergency telephone

New Zealand Poisons Information Centre: 0800 764 766 New Zealand:
+64 9801 0034
International: CHEMTREC +1 703 527 3887 (collect calls accepted).

**2. HAZARDS IDENTIFICATION****Classification of the substance or mixture**

Acute aquatic toxicity - Category 3

Chronic aquatic toxicity - Category 3

GHS Label elements, including precautionary statementsSignal Word **None****Hazard Statements**

H412 - Harmful to aquatic life with long lasting effects

Precautionary Statements - Prevention

- Avoid release to the environment

Precautionary Statements - Disposal

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

Other hazards which do not result in classification

Contaminated surfaces will be extremely slippery Should not be released into the environment

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

Chemical Name	CAS-No	EC-No	Weight %
Alkyl polysulfides	^	-	1-5
Long chain alkylamine	^	-	0.1-0.4
Long chain alkenylamine	^	-	0.1-0.3

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.



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Eye contact Rinse thoroughly with plenty of water, also under the eyelids.

Skin contact Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation Move to fresh air.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.

Most important symptoms/effects, acute and delayed

Skin contact Not classified. May produce an allergic reaction.

Eye contact Not classified.

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

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

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

Notes to physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide (CO₂). ABC powder. Foam. Water spray or fog.

Unsuitable Extinguishing Media

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

Specific hazards arising from the chemical

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

Special protective equipment for firefighters Wear self-contained breathing apparatus and protective suit. 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

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.



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Environmental precautions

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.

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). Keep in suitable, closed containers for disposal.

Other information**Personal Protective Equipment**

See Section 8 for more detail.

Waste treatment

See section 13.

7. HANDLING AND STORAGE**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 vapors or spray mist. Avoid contact with skin, eyes and clothing.

Prevention of fire and explosion

Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment

Hygiene measures

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 at the end of workday. 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.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep preferably in the original container. Otherwise reproduce all indication of the regulation label on 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.

Materials to Avoid

Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control parameters****Exposure limits**

Mineral oil mist:

USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)



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Appropriate engineering controls

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.

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

Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

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. Long sleeved clothing.

of gloves. Fluorinated rubber. Nitrile rubber. 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, and the contact time.

9. PHYSICAL AND CHEMICAL PROPERTIES**General Information**

Color	yellow To brown
Physical State @20°C	liquid
Odor	Characteristic
Odor Threshold	No information available

Important health safety and environmental information

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		No information available	
Boiling point/boiling range		No information available	
Flash point	264 °C		ASTM D92
	507 °F		ASTM D92.
Evaporation rate	No information available		
Flammability Limits in Air	No information available		
Vapor Pressure		No information available	
Vapor density		No information available	
Density	899.1 kg/m ³	@ 15 °C	ASTM D4052
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	



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Autoignition temperature

Viscosity, kinematic	329.2 mm ² /s	@ 40 °C	ASTM D445
	24.97 mm ² /s	@ 100 °C	ASTM D445

Explosive properties	Not explosive
Oxidizing Properties	No information available
Possibility of hazardous reactions	None under normal processing

Other information

Freezing Point	No information available
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Pour point	-15 °C	ASTM D97
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10. STABILITY AND REACTIVITY**Reactivity**

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions None under normal processing.

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

Materials to Avoid Strong 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****Acute toxicity - Product Information**

Skin contact	Not classified. May produce an allergic reaction.
Eye contact	Not classified.
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

0.1911 % of the mixture consists of ingredient(s) of unknown acute oral toxicity

0.1911 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity

0.3822 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity

Acute toxicity - Component Information



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Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkyl polysulfides	LD50 2551 mg/kg (Rat) LD50 6500 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	
Long chain alkylamine	LD50 612 mg/kg (Rat)	LD50 251 mg/kg (Rabbit)	LC50 (4h) 157 ppm (Rat - gas)
Long chain alkenylamine	LD50 1689 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	

Symptoms related to the physical, chemical and toxicological characteristics**Symptoms** No information available.**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. Contains sensitizer(s). May produce an allergic reaction.**Carcinogenicity** This product is not classified carcinogenic**Mutagenicity** This product is not classified as mutagenic.**Germ Cell Mutagenicity** This product is not classified as mutagenic**Reproductive toxicity** This product does not present any known or suspected reproductive hazards.**STOT-single exposure** Not classified**STOT - repeated exposure** Not classified**Other adverse effects** Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).**Aspiration Hazard** Not classified.**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information



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Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Long chain alkylamine ^	EC50 (72h) 0.44 mg/l (Algae)	EC50 (48h) 2.5 mg/l (Daphnia magna)	LC50 (96h) 1.3 mg/l (Fish)	
Long chain alkenylamine ^	EC50 (96h) 0.03 mg/l (Algae)	EC50 (48h) 0.011 mg/l (Daphnia magna)	LC50 (96h) 0.11 mg/l (Fish)	

Chronic aquatic toxicity -**Product Information** No information available.**Chronic aquatic toxicity** -**Component Information** No information available.**Effects on terrestrial organisms** No information available.**Persistence and degradability**

No information available.

Bioaccumulative potential**Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Long chain alkylamine - ^	2.9

Mobility**Soil**
soil mobility.

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

Air
Water

Loss by evaporation is limited.

The product is insoluble and floats on water.

Other adverse effects



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General Information

No information available.

13. DISPOSAL CONSIDERATIONS

Waste from Residues / Unused Products

Should not be released into the environment. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging

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

Other information

Refer to section 8 for safety and protective measures for disposal personnel.

14. TRANSPORT INFORMATION



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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

New Zealand Regulatory Information:

HSNO Approval Number HSR002605

HSNO Group Standard Lubricants (Low Hazard) Group Standard 2006

HSNO Classification 6.3 - SKIN IRRITATION - Category B

6.4 - EYE IRRITATION - Category A (Irritant)

9.1 - AQUATIC ECOTOXICITY - Category D

Regulation according to other foreign laws:

AICS: All of the significant ingredients in this formulation are compliant with NICNAS regulations

Further information

16. OTHER INFORMATION

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Revision Note No information available.

Abbreviations, acronyms

Legend Section 8

ACGIH - American Conference of Governmental Industrial Hygienists

TWA - Time Weight Average

STEL - Short Term Exposure Limits S* - Skin notation

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.