



SAFETY DATA SHEET

according to the Global Harmonized System

SDS # : 084489

TRANSTEC 5 80W-90

Issuing date: 2015-01-21

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 80W-90

Other means of identification
Number D9M
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

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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
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Mixture

Chemical Name	CAS-No	EC-No	Weight %
Alkyl polysulfides	^	-	1-5
Long chain alkylamine	^	-	0.1-0.4
Long chain alkenylamine	^	-	0.1-0.2

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.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Inhalation	Move to fresh air.

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Ingestion 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.
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.

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**

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

Special protective equipment for fighters

Wear self-contained breathing apparatus and protective suit. **fire-**

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 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.

Environmental precautions

General Information 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.

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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

Technical measures/Storage Keep away from food, drink and animal feedingstuffs. Keep in a bonded area. Keep **conditions** 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)

Appropriate engineering controls

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Engineering Measures Apply 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.
Hand Protection	Hydrocarbon-proof 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	orange	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	252 °C		ASTM D92
	507 °F		ASTM D92.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
Vapor Pressure		No information available	

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Vapor density		No information available	
Density	888.9 kg/m ³	@ 15 °C	ASTM D4052
Water solubility		Insoluble	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature			
Viscosity, kinematic	143 mm ² /s @ 40 °C	14.47 mm ² /s @ 100 °C	ASTM D445 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	
Pour point	-33 °C		ASTM D97

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

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Acute toxicity - Component Information

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.**Developmental Toxicity** Not classified.**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.

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Acute aquatic toxicity - Product Information

No information available.

Acute aquatic toxicity - Component Information

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.

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

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14. TRANSPORT INFORMATION

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

No information available

National regulatory information

16. OTHER INFORMATION

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.

End of the safety data sheet