



**SAFETY DATA SHEET**  
According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084010

## TRANS. SYN NA 75W-90

Date of the previous version: 2015-10-13

Revision Date: 2015-10-20

Version 2

### 1. IDENTIFICATION

#### Product identifier

**Product name** TRANS. SYN NA 75W-90

#### Other means of identification

**Product Code(s)** 084010

**Number** 8AJ  
**Substance/mixture** Mixture

#### Recommended use of the chemical and restrictions on use

**Identified uses** synthetic. Gear oil.

**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** USRMLIN-info@total.com

#### Emergency telephone number

**Company Phone Number** +1 (908) 862-9300  
**Emergency telephone** CHEMTREC: +1 800 424 9300 (24h)

### 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

#### Label elements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

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**Unknown Acute Toxicity**

No information available

**Hazards not otherwise classified (HNOC)**

None known

**Other information****Physical-Chemical Properties** Contaminated surfaces will be extremely slippery.**Environmental properties** Should not be released into the environment.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
phosphoric acid esters, amine salts	^	1-2.5
Polysulfides, di-tert-Bu	68937-96-2	1-5

*\* The exact percentage (concentration) of composition has been withheld as a trade secret*

**4. FIRST AID MEASURES****First aid measures for different exposure routes**

<b>General advice</b>	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin contact</b>	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse. Get medical attention if irritation develops and persists. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<b>Inhalation</b>	Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract. Get medical attention immediately if symptoms occur.
<b>Ingestion</b>	If swallowed, do not induce vomiting - seek medical advice. Clean mouth with water. Remove from exposure, lie down. Get medical attention immediately if symptoms occur. Never give anything by mouth to an unconscious person.

**Most important symptoms/effects, acute and delayed**

<b>Skin contact</b>	Not classified.
<b>Eye contact</b>	Not classified.

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<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

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

**Notes to physician** Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b><u>Suitable Extinguishing Media</u></b>	Foam. Carbon dioxide (CO <sub>2</sub> ). ABC powder.
<b><u>Unsuitable Extinguishing Media</u></b>	Do not use a solid water stream as it may scatter and spread fire.
<b><u>Special Hazard</u></b>	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.
<b><u>Explosion Data</u></b>	
<b><u>Sensitivity to Mechanical Impact</u></b>	None.
<b><u>Sensitivity to Static Discharge</u></b>	None.
<b><u>Protective Equipment and Precautions for Firefighters</u></b>	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**

<b>General Information</b>	Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment.
<b>Other information</b>	See Section 12 for additional information.

**Environmental precautions**

<b>General Information</b>	Do not allow material to contaminate ground water system. Local authorities should be advised if significant spillages cannot be contained. Try to prevent the material from entering drains or water courses. See Section 12 for additional Ecological Information.
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**Methods and materials for containment and cleaning up**

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### Methods for cleaning up

Dam up. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. 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). Use mechanical means such as pumps, skimmers and absorbent materials.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### Advice on safe handling

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice.

#### Hygiene measures

Regular cleaning of equipment, work area and clothing is recommended. 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. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. 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 conditions

Keep container tightly closed in a dry and well-ventilated place. Store in original container.

#### Materials to Avoid

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

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

### Exposure controls

#### 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

#### 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.

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<b>Eye/Face Protection</b>	If splashes are likely to occur, wear: Safety glasses with side-shields.
<b>Skin and body protection</b>	Wear suitable protective clothing. Protective shoes or boots.
<b>Hand Protection</b>	Protective gloves. Impervious gloves. 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.
<b>Respiratory protection</b>	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.
<b>Hygiene measures</b>	Regular cleaning of equipment, work area and clothing is recommended. 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. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Avoid breathing vapors, mist or gas. 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.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Physical and chemical properties**

<b>Color</b>	amber
<b>Physical State @20°C</b>	liquid
<b>Odor</b>	Petroleum distillates
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
<b>pH</b>		Not applicable	
<b>Melting point/range</b>		No information available	
<b>Boiling point/boiling range</b>		Not applicable	
<b>Flash point</b>	<b>204 °C</b> 399 °F		ASTM D 92 ASTM D 92.
<b>Evaporation rate</b>		No information available	
<b>Flammability Limits in Air</b>		No information available	
<b>upper</b>	-	No information available	
<b>Lower</b>	-	No information available	
<b>Vapor Pressure</b>	0.013 kPa @ 20 °C	@ 20 °C	
<b>Vapor density</b>	> 2	@ 101 kPa	
<b>Relative density</b>	0.859	@ 15 °C	ASTM D 1298

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Density	859 kg/m <sup>3</sup>	@ 15 °C	ASTM D 1298
Water solubility		Not applicable	
Solubility in other solvents		No information available	
logPow		No information available	
Autoignition temperature		Not applicable	
Decomposition temperature		No information available	
Viscosity, kinematic	120 mm <sup>2</sup> /s	@ 40 °C	ASTM D 445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		
<u>Other information</u>			
Specific Gravity	0.859	@ 15 °C	
Freezing Point		No information available	
Pour point	<= -33 °C		ASTM D 97

**10. STABILITY AND REACTIVITY**

<u>Reactivity</u>	No information available.
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of hazardous reactions</u>	None under normal processing.
<u>Conditions to Avoid</u>	Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.
<u>Incompatible Materials</u>	Strong oxidizing agents.
<u>Hazardous Decomposition Products</u>	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.

**Numerical measures of toxicity****Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
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Polysulfides, di-tert-Bu 68937-96-2	LD50 5500 mg/kg	LD50 2201 mg/kg	
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**Information on toxicological effects**

<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
<b>Skin contact</b>	Not classified.
<b>Eye contact</b>	Not classified.
<b>Inhalation</b>	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
<b>Ingestion</b>	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

<b>Sensitization</b>	Not classified as a sensitizer.
<b>Carcinogenicity</b>	This product is not classified carcinogenic.

<b>Mutagenicity</b>	This product is not classified as mutagenic.
<b>Reproductive toxicity</b>	This product does not present any known or suspected reproductive hazards.
<b>Other adverse effects</b>	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).
<b>Aspiration Hazard</b>	Not classified.

**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

No experimental data available

**Acute aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Polysulfides, di-tert-Bu 68937-96-2		LC50 (96h) 250-500 mg/l (Pimephales promelas - OECD 203)	EC50 (48h) > 1000 mg/l (Daphnia magna OECD 202)	

**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**

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No information available

**Effects on terrestrial organisms** No experimental data available .**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Polysulfides, di-tert-Bu 68937-96-2	5.6

**Mobility****Soil** No information available**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** Dispose of in accordance with local regulations.**14. TRANSPORT INFORMATION****DOT** Not regulated**TDG** Not regulated**MEX** Not regulated

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ICAO/IATA Not regulatedIMDG/IMO Not regulatedADR/RID Not regulatedADN Not regulated**15. REGULATORY INFORMATION**

International Inventories All the substances contained in this product are listed or exempted from listing in the following inventories:  
 U.S.A. (TSCA)  
 Australia (AICS)  
 Canada (DSL/NDSL)  
 Japan (ENCS)  
 Korea (KECL)  
 New Zealand (NZIoC)  
 Philippines (PICCS)

**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**

<b>Acute Health Hazard</b>	no
<b>Chronic Health Hazard</b>	no
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	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.

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**U.S. State Regulations****California Proposition 65**

Unknown

**U.S. State Right-to-Know Regulations**

No information available

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 0	Flammability 1	Instability 0	Physical and chemical hazards -
<b>HMIS</b>	Health Hazard 0	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:** 2015-10-20  
**Revision Note** \*\*\* Indicates updated section  
**Abbreviations, acronyms**

**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

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