



## SAFETY DATA SHEET

According to the Hazard Communication Standard, 29 CFR 1910.1200

SDS # : 084012

### TRANSMISSION SYN SAE 50

Date of the previous version: 2015-06-11

Revision Date: 2015-10-13

Version 2.01

#### 1. IDENTIFICATION

##### Product identifier

**Product name** TRANSMISSION SYN SAE 50

##### Other means of identification

**Product Code(s)** 084012

**Number** 3V4  
**Substance/mixture** Mixture

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

**Identified uses** synthetic. Transmission fluid. Hydraulic Fluid.

**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**

**Emergency telephone**

+1 (908) 862-9300

CHEMTREC: +1 800 424 9300 (24h)

#### 2. HAZARDS IDENTIFICATION

##### Classification

Skin sensitization - Category 1

##### Label elements

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**WARNING**

May cause an allergic skin reaction

**Precautionary Statements - Prevention**

Avoid breathing dust/fume/gas/mist/vapours/ spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Wear protective gloves

**Precautionary Statements - Response**

Specific treatment (see section 4 on this label)

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
 If skin irritation or rash occurs: Get medical advice/attention  
 Wash contaminated clothing before reuse

**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.**Environmental properties** Should not be released into the environment.**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical Name	CAS-No	Weight %
Alkylamine phosphates	80939-62-4	1-5
N-phenyl-1-naphthylamine	90-30-2	0.1-1
Alkoxylated long chain alkylamine	^	0.1-1
Dodecylphenol	27193-86-8	0.1-<1

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*\* 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>	Show this material safety data sheet to the doctor in attendance. IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If symptoms persist, call a physician. Rinse immediately with plenty of water and seek medical advice.
<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. If symptoms persist, call a physician. Wash off immediately with soap and plenty of water. Remove contaminated clothing and shoes.
<b>Inhalation</b>	Move to fresh air. If symptoms persist, call a physician. Inhalation of high concentrations of vapor or aerosols may cause irritation of the upper respiratory tract.
<b>Ingestion</b>	Rinse mouth. If swallowed, do not induce vomiting - seek medical advice. Never give anything by mouth to an unconscious person.
<b>Protection of First-aiders</b>	Use personal protective equipment.

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

<b>Skin contact</b>	May cause an allergic skin reaction. Causes mild skin irritation. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<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.
<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching.

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

<b>Notes to physician</b>	May cause sensitization of susceptible persons.
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### 5. FIRE-FIGHTING MEASURES

<b><u>Suitable Extinguishing Media</u></b>	Water spray or fog. 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.

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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** None.

**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** Use personal protective equipment. Avoid contact with the skin and the eyes. Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery.

**Other information** See Section 12 for additional information.

### Environmental precautions

**General Information** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. 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.

### Methods and materials for containment and cleaning up

**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. Wear personal protective equipment. 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.

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### 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. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Do not wash off with: Fuel. Solvent. Abrasive. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Avoid breathing vapors, mist or gas. 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 out of reach of children. Keep container tightly closed. Keep containers tightly closed in a cool, well-ventilated place. Keep away from food, drink and animal feedingstuffs. Keep in a bunded area. 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. Store in original container. Keep in properly labeled containers.

#### Materials to Avoid

Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure limits

We are not aware of any national exposure limit.

### 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.

#### 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.

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**Hand Protection**

Protective 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.

**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. Remove and wash contaminated clothing before re-use. Regular cleaning of equipment, work area and clothing is recommended. Use personal protective equipment as required. Wash hands before breaks and at the end of workday. Wash hands with water as a precaution. Do not wash off with: Fuel. Solvent. Abrasive. Avoid prolonged and repeated contact with the skin, especially with used or waste product. Avoid breathing vapors, mist or gas. 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**

Color	amber
Physical State @20°C	liquid
Odor	Characteristic
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks</u>	<u>Method</u>
pH		Not applicable	
Melting point/range		No information available	
Boiling point/boiling range	> 316 °C > 601 °F		
Flash point	221 °C 430 °F		ASTM D 92 ASTM D 92.
Evaporation rate		No information available	
Flammability Limits in Air		No information available	
upper	-***	No information available***	
Lower	-***	No information available***	
Vapor Pressure	< 0.013 kPa	@ 20 °C	
Vapor density	> 2	(Air = 1)	
Relative density	0.860	@ 15 °C	ASTM D 1298
Density	860 kg/m <sup>3</sup>	@ 15 °C	ASTM D 1298
Water solubility		Not applicable	
Solubility in other solvents		No information available	

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Autoignition temperature		Not applicable	
Decomposition temperature		No information available	
Viscosity, kinematic	132 mm <sup>2</sup> /s	@ 40 °C	ASTM D 445
	17.5 mm <sup>2</sup> /s	@ 100 °C	ASTM D 445
Explosive properties	Not explosive		
Oxidizing Properties	Not applicable		
Possibility of hazardous reactions	Not applicable		
<b>Other information</b>			
Specific Gravity	0.860	@ 15 °C	ASTM D 1298
Freezing Point		No information available	
Pour point	- 45 °C		

### 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	None under normal processing.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	None under normal processing.
<b>Conditions to Avoid</b>	Heat, flames and sparks. Take precautionary measures against static discharges. Heat (temperatures above flash point), sparks, ignition points, flames, static electricity. Strong oxidizing agents.
<b>Incompatible Materials</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products</b>	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

ATEmix (oral)	32112 mg/kg
ATEmix (dermal)	37055 mg/kg
Inhalation	
ATEmix (inhalation-dust/mist)	85 mg/l
ATEmix (inhalation-vapor)	2010 mg/l

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**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Alkylamine phosphates 80939-62-4	LD50 > 2000 mg/kg (Rat)	LD50 > 2000 mg/kg (Rabbit)	
N-phenyl-1-naphthylamine 90-30-2	LD50 1625 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	
Alkoxylated long chain alkylamine ^	LD50 1350 mg/kg (Rat)		LC50 (1h) 220 ppm (Rat - Vapor)
Dodecylphenol 27193-86-8	LD50 2100 mg/kg (Rat)	LD50 5 ml/kg (Rabbit)	

**Information on toxicological effects**

<b>Symptoms</b>	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Itching.
<b>Skin contact</b>	May cause an allergic skin reaction. Causes mild skin irritation. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
<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>	May cause sensitization by skin contact. May cause an allergic skin reaction.
<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>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
Alkylamine phosphates 80939-62-4	EC50 (72h) > 10 mg/l (Algae)	LC50 (96h) 5.5 mg/l (Fish)	EC50 (48h) 1.2 mg/l (Daphnia magna)	

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N-phenyl-1-naphthylamine 90-30-2	EC50 (72h) 0.25 mg/L (Desmodesmus subspicatus)	LC50(96h) 0.44 mg/L (Oncorhynchus mykiss)	EC50 (48h) 0.32 mg/L (Daphnia magna - OECD 202-2)	
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**Chronic aquatic toxicity - Product Information**

No experimental data available

**Chronic aquatic toxicity - Component Information**

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
N-phenyl-1-naphthylamine 90-30-2		NOEC (21d) 0.025 mg/L (Daphnia magna)		

**Effects on terrestrial organisms** No experimental data available .**Persistence and degradability****General Information** No information available.**Bioaccumulative potential****Product Information** No information available.**logPow** > 3.5**Component Information**

Chemical Name	log Pow
N-phenyl-1-naphthylamine 90-30-2	4.47
Dodecylphenol 27193-86-8	6.58

**Mobility**

**Soil** No information available  
**Water** The product is insoluble and floats on water  
**Other adverse effects**

**General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste Disposal Methods** Dispose of in accordance with local regulations.

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### Contaminated packaging

Empty containers may contain flammable or explosive vapors. Do not burn, or use a cutting torch on, the empty drum. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local regulations.

## 14. TRANSPORT INFORMATION

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO/IATA</u>	Not regulated
<u>IMDG/IMO</u>	Not regulated
<u>ADR/RID</u>	Not regulated
<u>ADN</u>	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)  
 Canada (DSL/NDSL)  
 Japan (ENCS)  
 China (IECSC)  
 Australia (AICS)  
 Philippines (PICCS)  
 Korea (KECL)

### 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

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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 contains the following HAPs:

Chemical Name	CAS-No	Weight %	HAPS data	VOC Chemicals	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Dodecylphenol	27193-86-8	0.1-<1		Group III		

### 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

<b>NFPA</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Instability 0</b>	<b>Physical and chemical hazards -</b>
<b>HMIS</b>	<b>Health Hazard 2</b>	<b>Flammability 1</b>	<b>Physical Hazard 0</b>	<b>Personal protection X</b>

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 Note \*\*\* Indicates updated section

Abbreviations, acronyms

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**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

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**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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