



# MATERIAL SAFETY DATA SHEET

Health & Safety Information

## Torco V-Series "ST" Motor Oil SAE 20W50

Product Part Number: T632050  
MSDS Date: 05/10/2013

### Section 1: Identification of the preparation and company

Preparation/Product Name	Torco V-Series "ST" Motor Oil SAE 20W50
Product Code	T632050
Company Name	TORCO INTERNATIONAL CORP. 9145 MILLIKEN AVENUE RANCHO CUCAMONGA, CA 91730
Telephone No.	(909) 980-1495
24 hour Emergency Telephone No.	(800) 424-9300
General MSDS	(909) 980-1495

### Section 2: Hazards Identification of the product

## Warning

#### GHS Classification

Item	Category	Hazard
Flammability	Not classified	Not applicable
Acute Toxicity (mouth)	5	May be harmful if swallowed
Acute Toxicity (skin)	5	May be harmful in contact with skin
Acute Toxicity (inhalation)	Not classified	Not applicable
Acute Toxicity (ingestion)	Not classified	Not applicable
Skin corrosion/irritation	Not classified	Not applicable
Eye damage/irritation	Not classified	Not applicable
Sensitization (respiratory)	Not classified	Not applicable
Sensitization (skin)	Not classified	Not applicable
Germ toxicity	Not classified	Not applicable
Specific target organ systemic toxicity (single exposure)	1	No target organs for this category.
	2	No target organs for this category.
	3	No target organs for this category.
Specific target organ systemic toxicity (repeated exposure)	1	No target organs for this category.
	2	No target organs for this category.
Aspiration hazard	Not classified	Not applicable
Harmfulness to aquatic environment (acute)	Not classified	Not applicable
Harmfulness to aquatic environment (long term effect)	Not classified	Not applicable
Carcinogenicity	Not classified	Not applicable
Reproductive toxicity	Not classified	Not applicable
Organic peroxide	Not classified	Not applicable

Safety Phrases: Not Applicable

### Section 3: Composition / Information Identity of Ingredients

Mixture: Yes

Ingredient	CAS Number	Concentration
Petroleum distillates, hydrotreated heavy paraffinic	064742-54-7	<90
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	068649-42-3	<1
Zinc alkyl dithiophosphate	Proprietary or N/A	<3

Contains no other ingredients now known to be hazardous as defined by OSHA 29 CFR 1910.1000(z)

### Section 4: First Aid Measures

<b>Inhalation</b>	Remove exposed person to fresh air. If breathing is labored, administer oxygen and obtain immediate medical attention. If irritation persists or if toxic symptoms are observed, get medical attention.
<b>Eye Contact</b>	Flush with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
<b>Skin Contact</b>	Wash immediately with soap and water. Remove soiled clothing. Get medical attention if irritation develops. Launder contaminated clothing.
<b>Ingestion</b>	DO NOT INDUCE VOMITING. If conscious, give 2 glasses of water. Get immediate medical attention.

### Section 5: Fire Fighting Measures

**Flash Point °C** 200

Slightly Combustible. May release flammable vapors when heated above flash point.

**Extinguishing Media** Carbon Dioxide, dry chemical, or foam. Avoid using water.

**Combustion Products** Carbon monoxide and asphyxiants.

**Special Fire Procedures** Recommend SCBA. Use water only for cooling container. Water may cause splattering, or transport the flame.

### Section 6: Accidental Release Measures

Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see PPE section 8 & 16. Remove sources of ignition. Prevent entry into sewers and waterways. Contain release, pick up free liquid for recycling or disposal. Residual liquid can be absorbed with inert material. Check DOT/CERCLA and other agencies for reporting requirements.

Prevent contamination to soil, waterway and sewer systems.

### Section 7: Handling & Storage

<b>Handling</b>	Avoid prolonged skin contact, breathing vapors, and contaminated clothing. Use with adequate ventilation. Wear recommended protective equipment. Practice good personal hygiene after handling. Empty containers retain material residue. Do not cut, weld, braze, solder or expose containers to other ignition sources.
<b>Storage</b>	Store in closed containers of proper construction. Store away from ignition sources and in areas of good ventilation.

## Section 8: Exposure Controls & Personal Protection

<b>Exposure Limits</b>	The PEL (OSHA) and the TLV (ACGIH) is 5 mg/m <sup>3</sup> for oil mists.
<b>Ventilation</b>	Use in areas of adequate ventilation. Use mechanical exhaust to control vapors or mists.
<b>Gloves</b>	Nitrile or neoprene gloves are recommended.
<b>Eye Protection</b>	Safety glasses, goggles, or face shield are recommended.
<b>Respiratory Protection</b>	Use NIOSH/MSHA approved respirator with organic vapor cartridge and dust/mist cartridge is recommended exposure limit is exceeded. Self-contained breathing apparatus is recommended for confined space entry.
<b>Clothing</b>	Long sleeve shirt and apron when potential for skin contact. Wear neoprene or nitrile rubber boots when necessary to avoid contaminating shoes.

## Section 9: Physical & Chemical Properties

<b>Appearance</b>	AMBER OILY LIQUID	<b>Odor</b>	Petroleum Odor
<b>Flash Point °C</b>	>200	<b>Boiling Point °C</b>	>300
<b>VOC %</b>	NIL	<b>pH</b>	n/d
<b>Specific Gravity</b>	0.875	<b>Solubility in Water</b>	negligible
<b>Vapor Pressure</b>	<0.01 mmHg@20 °C	<b>Vapor Density</b>	Heavier than air
<b>Evaporation Point</b>	less than ether		
<b>Flammability</b>	Not applicable		

*Data supplied is for use only in connection with occupational safety and health. Specifications subject to change without notice.*

## Section 10: Stability & Reactivity

<b>Stability</b>	Material is normally stable at ambient temperature and pressure.
<b>Conditions to Avoid</b>	Oxidizing agents. Do not heat above the flash point.
<b>Polymerization</b>	Will not occur.
<b>Decomposition</b>	Carbon dioxide, carbon monoxide.

## Section 11: Toxicological Information

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LD50, mg/L/4hr
Petroleum distillates, hydrotreated heavy paraffinic	>5,000, rat - Category: NA	> 5,000, rabbit - Category: NA	-----
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts	2,000, rat - Category: 4	2,000.00, rat - Category: 4	5.00, rat - Category: 3
Zinc alkyl dithiophosphate	-----	-----	-----

<b>Oral Toxicity</b>	Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.
<b>Eye Irritation</b>	Not expected to cause eye irritation.
<b>Skin Irritation</b>	Not expected to be a primary skin irritant. Prolonged or repetitive contact may cause irritation.
<b>Carcinogenicity</b>	This material has not been identified as a carcinogen by NTP, IARC, or OSHA.

## Section 12: Ecological Information

This material is expected to have adverse affects on marine and plant life. Spills may contaminate drinking water.

## Section 13: Disposal Consideration

Consult federal, state, and local regulations regarding disposal methods, Recycle used oil. Do not contaminate used oil with solvents or other chemicals.

## Section 14: Transportation Information

See 49 CFR part 171.8 through 178.510

<b>Proper Shipping Name</b>	Oil, n.o.s
<b>DOT Hazard Class</b>	Not regulated
<b>UN No</b>	Not applicable
<b>Guide Number</b>	128
<b>IMDG</b>	This product is not regulated by the International Maritime Organization (IMO) or the International Maritime Dangerous Goods Code (IMDG).

## Section 15: Regulatory Information

<b>TSCA:</b>	All components of this product are listed on the United States TSCA (Toxic Control Substance Act) Inventory.
<b>RCRA:</b>	Not regulated
<b>SARA 311/312 (&gt;0.1%):</b>	Not applicable
<b>SARA 313 (&gt;0.1%):</b>	Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts
<b>CERCLA (&gt;0.1%):</b>	Not applicable
<b>Inventory - Canada - Non-Domestic Substances List (NDSL):</b>	Not applicable
<b>California Proposition 65 Cancer (&gt;0.00%):</b>	
	Cadmium (<0.01 %)
	Lead (<0.01 %)
<b>California Proposition 65 Developmental (&gt;0.00%):</b>	
	Cadmium (<0.01 %)
	Lead (<0.01 %)
<b>California Proposition 65 Female Reproductive (&gt;0.00%):</b>	
	Lead (<0.01 %)
<b>California Proposition 65 Male Reproductive (&gt;0.00%):</b>	
	Cadmium (<0.01 %)
	Lead (<0.01 %)

**Inventory - Australia - Inventory of Chemical Substances (AICS):**

Petroleum distillates, hydrotreated heavy paraffinic  
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
Zinc Alkyldithiophosphate

**Inventory - Japan Existing and New Chemical Substances (ENCS):**

Petroleum distillates, hydrotreated heavy paraffinic ()  
Polybutene (6-774)  
Residual oils (petroleum), solvent refined ()

**Korean Existing Chemicals Inventory:**

Petroleum distillates, hydrotreated heavy paraffinic  
Polybutene  
Residual oils (petroleum), solvent refined

**Inventory of Existing Chemical Substances in China:**

Petroleum distillates, hydrotreated heavy paraffinic  
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
Polybutene  
Residual oils (petroleum), solvent refined  
Zinc Alkyldithiophosphate

**Philippines Inventory of Chemicals and Chemical Substances (PICCS):**

Petroleum distillates, hydrotreated heavy paraffinic  
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts  
Polybutene  
Residual oils (petroleum), solvent refined  
Zinc Alkyldithiophosphate

**Taiwan List of Toxic Chemical Substances regulated under Toxic Chemical Substances Control Act :** Not applicable

**EU REACH: Annex XVII, Dangerous Substances and Preparations:**

Petroleum distillates, hydrotreated heavy paraffinic  
Residual oils (petroleum), solvent refined

**Inventory - European Union - European Inventory of Existing Commercial Chemical Substances (EINECS):**

Petroleum distillates, hydrotreated heavy paraffinic (265-157-1)  
Petroleum product additive ()  
Phosphorodithioic acid, O,O-di-C1-14-alkyl esters, zinc salts (272-028-3)

Polybutene ()  
 Residual oils (petroleum), solvent refined (265-101-6)  
 Zinc Alkyldithiophosphate ()

**EU List of Notified Chemical Substances (ELINCS):** Not applicable

**Risk Phrases:** Not Applicable

<b>Section 16: Other Information</b>
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<b>HMIS</b>	<b>Health:</b>	1	<b>NFPA</b>	<b>Health:</b>	1
	<b>Fire:</b>	1		<b>Fire:</b>	1
	<b>Physical Hazards:</b>	0		<b>Reactivity:</b>	0
	<b>PPE:</b>	C		<b>Special Hazards:</b>	---

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**End of Material Safety Data Sheet**