

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

29 CFR 1910.1200 (OSHA Hazcom 2012)

### Section 1: PRODUCT AND COMPANY INFORMATION

<b>Product Identifier:</b>	Titan Semi-Synthetic 5w30
<b>Synonym:</b>	Petroleum Oil, Lube Oil, Petroleum hydrocarbon, Lubricant
<b>Product Number:</b>	580162
<b>Product Use:</b>	Engine oil lubricant
<b>Details of the supplier of the safety data sheet</b>	Siegel Oil Company
<b>Address:</b>	1380 Zuni Street Denver, CO 80204 303-893-3211
<b>Emergency Telephone Number:</b> This number is for emergency use only. If you desire non-emergency product information, please call phone number above.	<b>CHEMTREC 800-424-9300</b>

### Section 2: HAZARDS IDENTIFICATION

#### GHS Classification

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### GHS Label Element

This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).

#### Other Hazards

None Known.

### Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture: MIXTURE

Chemical Nature

#### Hazardous Components

Chemical Name	CAS-No.	Classification	Concentration%
ALKYLATED PHENOL	CONFIDENTIAL		0.1-0.9
ZINC ALKYL DITHIOPHOSPHATE	CONFIDENTIAL		0.1-0.9

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

DIPHENYLAMINE	122-39-4	0.1-0.9
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<b>Section 4: FIRST AID MEASURES</b>
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General Advice	No hazards which require special first aid measures.
<b>INHALED</b>	Vaporization is not expected at ambient temperatures. This material is not expected to be an inhalation problem under the anticipated conditions of use. In case of overexposure, move person to fresh air. If not breathing, administer artificial respiration and oxygen.
<b>SKIN</b>	Wash thoroughly with soap and water. Remove contaminated clothing and shoes. Launder contaminated clothing before reuse. Seek medical attention if redness or irritation occurs.
<b>EYE</b>	Immediately flush eyes with large amounts of water for at least 15 minutes. Get medical attention if irritation develops.
<b>INGESTION</b>	DO NOT INDUCE VOMITING. If the individual is conscious, give a glass of milk or water. Seek prompt medical attention. DO NOT attempt to give an unconscious person anything by mouth.
<b>Notes to physicians</b>	Treat symptomatically.

<b>Section 5: FIREFIGHTING MEASURES</b>
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<b>Suitable extinguishing media</b>	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment Water Spray Foam Carbon Dioxide (CO2) Dry Chemical Water may cause spattering. Cool tanks and exposed containers with water.
<b>Unsuitable extinguishing media</b>	High Volume water jet
<b>Specific hazards during firefighting</b>	Do not allow run-off from firefighting to enter drains or water courses.
<b>Hazardous combustion products</b>	Toxic fumes, gases or vapors may evolve on burning.
<b>Specific extinguishing methods</b>	Product is compatible with standard firefighting

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

	agents
<b>Further information</b>	Standard procedure for chemical fires
<b>Special protective equipment for firefighters</b>	In the event of fire, wear self-contained breathing apparatus.

<b>Section 6: ACCIDENTAL RELEASE MEASURES</b>
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<b>Personal precautions, protective equipment and emergency procedures</b>	Wear protective equipment and provide engineering controls as specified in <b>Section 8</b> . Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Ventilate area and avoid breathing vapor mist.
<b>Environmental Precautions</b>	<p><b>Land Spill:</b> Eliminate sources of ignition. Prevent additional discharge of material, if possible to do so without hazard. For small spills clean up using appropriate techniques including absorbent materials or pumping and follow all precautions in Exposure Controls/Personal Protection. Use caution, material may present a slipping hazard. For large spills follow prescribed procedures for reporting and responding. Prevent liquid from entering sewers, watercourses, or low areas. If the liquid is too viscous for pumping, scrape it up. Consult an expert on disposal of recovered material and ensure conformity to local, State, or Federal disposal regulations.</p> <p><b>Water Spill:</b> Remove from surface by skimming or with suitable absorbent. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local, State and Federal disposal regulations.</p>
<b>Methods and materials for containment and cleaning up</b>	Contain spill as a liquid for possible recovery, or sorb with compatible sorbent material and shovel with a clean spark-proof tool into a sealable container for disposal. Additionally, for large spills, dike far ahead of liquid spill for collection and later disposal.
<b>Other information</b>	Comply with all applicable federal, state and local

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

	regulations.
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**Section 7: HANDLING AND STORAGE**

<b>HANDLING</b>	Keep away from heat, sparks and flame. Keep containers closed when not in use. Hands should be washed thoroughly after handling. When transferring material, use proper bonding and/or grounding procedures. Empty containers contain residue, which may exhibit the hazards of the product. Do not attempt to refill or clean containers since residue is difficult to remove. Do not pressurize, cut, heat or weld containers.
<b>SHIPPING AND STORING</b>	KEEP OUT OF REACH OF CHILDREN! Odorous and toxic fumes may form from decomposition of this material if stored in temperatures in excess of 113 Deg. F (45 Deg. C) for extended periods of time.

**Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE GUIDELINES**

<b>Components with workplace control parameters</b>				
COMPONENT	OSHA		ACGIH	
	TWA	STEL	TWA	STEL
Mineral Oil (Oil Mist)	5 mg/m <sup>3</sup>	N/E	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Additive Mixture (Oil Mist)	5 mg/m <sup>3</sup>	N/E	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Zinc Alkyldithiophosphate	N/E	N/E	N/E	N/E
Alkylated Phenol	N/E	N/E	N/E	N/E
Diphenylamine	N/E	N/E	10 mg/m <sup>3</sup>	N/E
Toluene	200 ppm	300 ppm	50 ppm	N/E
<b>Engineering measures</b>	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.			
<b>Personal Protective Equipment</b>				
Hand protection remarks	The suitability for a specific workplace should be discussed with the producers of the protective gloves.			
Eye Protection	Use splash goggles or face shield when eye and face contact is possible due to splashing or spraying of material. Eye wash water should be available. Hard			

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

	contact lenses should not be worn.
Skin and Body Protection	Use chemical resistant gloves to avoid prolonged or repeated skin contact. The following materials may provide suitable chemical protection: Neoprene, Nitrile or Viton. Always seek advice from glove suppliers. Gloves should be replaced if signs of degradation or chemical breakthrough occur. Long sleeve shirt is recommended. When leaving work area, wash hands/exposed skin with soap and water.
Hygiene measures	Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

<b>Section 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
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<b>Physical state</b>	Amber liquid
<b>Odor</b>	Mild
<b>Odor Threshold</b>	Not Available
<b>pH</b>	Not Available
<b>Melting point/freezing point</b>	Not Available
<b>Boiling point/boiling range</b>	Not Determined
<b>Flash Point</b>	446 Deg. F (230 Deg. C) by COC D92
<b>Evaporation Rate</b>	<1
<b>Flammability (solid, gas)</b>	Not Available
<b>Upper Explosion Limit</b>	Not Available
<b>Lower Explosion Limit</b>	Not Available
<b>Vapor Pressure</b>	less than 1 mm Hg at 68°F (20°C)
<b>Relative Vapor Density</b>	>1AIR=1
<b>Density</b>	0.875 g/cm <sup>3</sup> at 60°F (15.5°C)
<b>Relative Density</b>	Not Available
<b>Water Solubility</b>	Not Available
<b>Solubility in other solvents</b>	Not Available
<b>Partition coefficient: n-octanol/water</b>	Not Available
<b>Thermal decomposition</b>	Not Available
<b>Viscosity, dynamic</b>	10.9 mm <sup>2</sup> /s (40 °C)
<b>Viscosity, kinematic</b>	65.6 mm <sup>2</sup> /s (40 °C)
<b>Oxidizing Properties</b>	Not Available

<b>Section 10: STABILITY AND REACTIVITY</b>
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SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

<b>Reactivity</b>	Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
<b>Chemical Stability</b>	Stable under regular temperatures and pressure.
<b>Possibility of hazardous reactions</b>	Product will not undergo hazardous polymerization.
<b>Incompatible materials</b>	Avoid strong oxidizing agents and reducing agents.
<b>Hazardous decomposition products</b>	Combustion may produce carbon monoxide, carbon dioxide and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Complete combustion will form oxides of the following elements: calcium, sulfur, and zinc.

<b>Section 11: TOXICOLOGICAL INFORMATION</b>
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Information on likely routes of exposure: Inhalation Skin Contact Eye Contact Ingestions	
<b>ACUTE TOXICITY:</b>	Not classified based on available information.
<b>Product:</b>	Not classified as acutely toxic by dermal absorption under GHS
<b>SKIN CORROSION/IRRITATION</b>	May cause slight irritation with prolonged or repeated exposure resulting in redness, edema, drying or cracking of skin. Based on component data. Personnel with pre-existing skin disorders should avoid contact with this product.
<b>Product:</b>	Result: Mildly irritating to skin Result: Repeated Exposure may cause skin dryness or cracking.
<b>Components:</b>	ZINC ALKYL DITHIOPHOSPHATE Result: Mildly irritating to skin
<b>SERIOUS EYE DAMAGE/EYE IRRITATION</b>	May cause temporary irritation based on component data.
<b>Product:</b>	Result: Slightly irritating to eyes Remarks: Expected based on components. Remarks: Vapors may cause irritation to the eyes,

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

	respiratory system and the skin.
<b>Components:</b>	ZINC ALKYL DITHIOPHOSPHATE: Result: Possibly irritating to eyes
<b>Respiratory sensitization</b>	No significant adverse health effects are expected to occur under normal conditions of use. However, exposure to petroleum mist at high levels may be irritating to the nose, throat and lungs.
<b>Germ Cell mutagenicity</b>	Not classified based on available information.
<b>Carcinogenicity</b>	This product is formulated with mineral oils, which are considered to be severely refined and not considered to be carcinogenic under IARC. The IP346 test has not been used to evaluate these oils.
<b>Reproductive Toxicity</b>	Not classified based on available information.
<b>STOT – Single Exposure</b>	Not classified based on available information.
<b>STOT – Repeated Exposure</b>	Not classified based on available information.
<b>Aspiration Toxicity</b>	Not classified based on available information.
<b>Product:</b>	No aspiration toxicity classification
<b>Components:</b>	
<b>Further information</b>	
<b>Product:</b>	Remarks: No data available
<b>Teratogenicity</b>	Based on component data, there are conflicting reports in the literature regarding the teratogenicity of diphenylamine. However, since the dosage and exposure were in high dose levels, it would not seem to present a workplace hazard.
<b>IARC</b>	No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<b>OSHA</b>	No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
<b>NTP</b>	No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**Section 12: ECOLOGICAL INFORMATION**

<b>Ecotoxicity</b>	Material may be harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment.
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SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

<b>Components:</b>	ZINC DIALKYL DITHIOPHOSPHATE Acute aquatic toxicity: Toxic to aquatic life Chronic aquatic toxicity: Toxic to aquatic life with long lasting effects.
<b>Persistence and degradability</b>	This material is not expected to be readily biodegradable based on component data
<b>Bioaccumulative potential</b>	No information available for the product.
<b>Mobility in soil</b>	No information available for the product
<b>Other adverse effects</b>	No information available for the product.
<b>Aquatic Release</b>	Advise authorities if product has entered or may enter watercourses and sewer systems.

**Section 13: DISPOSAL CONSIDERATIONS**

<b>Disposal Methods</b>	
General Advice	Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with all applicable local, state and federal regulations.
Contaminated Packaging	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

**Section 14: TRANSPORT INFORMATION**

**International transport regulations**

**REGULATION**

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT/LTD QTY.

**U.S DOT – ROAD**

Not dangerous goods
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**U.S DOT – RAIL**

Not dangerous goods
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**U.S DOT – INLAND WATERWAYS**



SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

Not dangerous goods
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**TRANSPORT CANADA - ROAD**

Not dangerous goods
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**TRANSPORT CANADA - RAIL**

Not dangerous goods
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**TRANSPORT CANADA - INLAND WATERWAYS**

Not dangerous goods
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**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods
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**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods
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**MEXICAN REGULATION FOR THE LAND TRANSPORT OF HAZARDOUS MATERIALS AND WASTES**

Not dangerous goods
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**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant      NO
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Dangerous goods descriptions (if indicated above) may not reflect quantity, end – use or region – specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

**Section 15: REGULATORY INFORMATION**

<b>SARA Extreme Hazardous Substance</b>	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
<b>SARA III Section 313</b>	This product contains less than 0.1% as zinc, less than 0.01% toluene, CAS # 108-88-3
<b>CERCLA</b>	This product contains less than 0.1% as zinc.

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

	Component	Reportable Quantity (RQ)	Units	Reportable Quantity (RQ)	Units
		Toluene	8194	Gal.	31008
<b>California Prop 65</b>	Based on information currently available, this product contains chemicals currently listed as carcinogens or reproductive toxins under California Proposition 65: <1 ppm arsenic, <1 ppm cadmium, <1 ppm lead, <1 ppm Benzene Cas No. 71-43-2, <1 ppm Toluene Cas No. 108-88-3. If this product is reformulated or further processed, further evaluation should be done based upon such reformulation or processing, as well as upon its final composition and use.				
TSCA	On TSCA Inventory				
DSL	All components of this product are on the Canadian DSL.				
AUSTR	Contains a component that may need notification.				
ENCS	All ingredients are on the inventory				
KECL	On the inventory, or in compliance with the inventory				
PICCS	Contains a component that may need notification.				
IECSC	Contains a component that may need notification.				

### Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

## Section 16: OTHER INFORMATION

### Further Information

Revision Date: 5/26/2015

<b>NFPA:</b>	<b>HMIS III:</b>
<b>Flammability: 1</b>	<b>Flammability: 1</b>
<b>Health: 1</b>	<b>Health: 1</b>
<b>Instability: 0</b>	<b>Physical Hazard: 0</b>
<b>Special Hazard:</b>	<b>0=not significant</b> <b>1=slight</b> <b>2=moderate</b> <b>3=high</b> <b>4=extreme</b> <b>*=chronic</b>

**NFPA Flammable and Combustible Liquids Classification**  
**Combustible Liquid Class 111B**

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

**Full text of H-Statements referred to under sections 2 and 3.**

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritations.

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Sources of key data used to compile the Safety Data Sheet

The UNECE administers regional agreements implementing harmonized classification for labeling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet:

ACGIH : American Conference of Industrial Hygienists

BEI : Biological Exposure Index

CAS : Chemical Abstracts Service (Division of the American Chemical Society).

CMR : Carcinogenic, Mutagenic or Toxic for Reproduction

FG : Food grade

GHS : Globally Harmonized System of Classification and Labeling of Chemicals.

H-statement : Hazard Statement

IATA : International Air Transport Association.

IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO : International Civil Aviation Organization

ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"

IMDG : International Maritime Code for Dangerous Goods

ISO : International Organization for Standardization

logPow : octanol-water partition coefficient

LCxx : Lethal Concentration, for xx percent of test population

LDxx : Lethal Dose, for xx percent of test population.

ICxx : Inhibitory Concentration for xx of a substance

Ecxx : Effective Concentration of xx

N.O.S.: Not Otherwise Specified

OECD : Organization for Economic Co-operation and Development

OEL : Occupational Exposure Limit

P-Statement : Precautionary Statement

PBT : Persistent , Bioaccumulative and Toxic

SIEGEL OIL COMPANY	SDS Number: D0640
<b>SAFETY DATA SHEET</b>	Revision Date: 5/26/2015
Titan Semi-Synthetic 5w30	Supersedes: 10/18/2006

PPE : Personal Protective Equipment  
 STEL : Short-term exposure limit  
 STOT : Specific Target Organ Toxicity  
 TLV : Threshold Limit Value  
 TWA : Time-weighted average  
 vPvB : Very Persistent and Very Bioaccumulative  
 WEL : Workplace Exposure Level  
 CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act  
 DOT : Department of Transportation  
 FIFRA : Federal Insecticide, Fungicide, and Rodenticide Act  
 HMIRC : Hazardous Materials Information Review Commission  
 HMIS : Hazardous Materials Identification System  
 NFPA : National Fire Protection Association  
 NIOSH : National Institute for Occupational Safety and Health  
 OSHA : Occupational Safety and Health Administration  
 PMRA : Health Canada Pest Management Regulatory Agency  
 RTK : Right to Know  
 WHMIS : Workplace Hazardous Materials Information System

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