

# Tribodyne® Tri-Ex<sup>2</sup> 5W-40 HD FS Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Date of issue: 02/18/2016 Version: 1.0

## SECTION 1: Identification

### 1.1. Identification

Product Form : Mixture  
Product Name : Tribodyne® Tri-Ex<sup>2</sup> 5W-40 Heavy Duty Full Synthetic Motor Oil

### 1.2. Recommended use and restrictions on use

Recommended use : Lubricant  
Restrictions on use : No additional information available

### 1.3. Supplier

Tribodyne, Inc.  
P.O. Box 117  
Mooresville, NC  
(704-266-3577  
[www.tribodyne.com](http://www.tribodyne.com)

### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)

## SECTION 2: Hazard(s) Identification

Classification of the substance or mixture the substance is not classified according to the Globally Harmonized System (GHS).

### 2.1 Label Elements

GHS label elements : Non-regulated material  
Hazard pictograms : Non-regulated material  
Signal word : Non-regulated material  
Hazard statements : Non-regulated material

### 2.2 Classification System

NFPA ratings (scale 0-4)  
Health=0; Fire=1; Reactivity=0  
HMIS-ratings (scale 0 - 4) Health=0; Fire=1; Reactivity=0



HEALTH	0
FIRE	1
REACTIVITY	0

## SECTION 3: Composition/Information on Ingredients

Components not listed are not physical or health hazards as defined in 29 CFR 1910.1200 (Hazard Communication Standard).

Name	Product identifier	%	GHS-US classification
Petroleum distillates, solvent dewaxed Dewaxed heavy paraffinic	64742-65-0	3-7	No Data Available
Phenol, (tetrapropenyl) derivatives	74499-35-7	0.1-1	No Data Available

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**SECTION 4: First-Aid Measures**

**4.1 Description of first aid measures**

General information	:No special measures required
After inhalation	:Supply fresh air; consult doctor in case of complaints
After skin contact	:Generally, the product does not irritate the skin
After eye contact	:Rinse opened eye for several minutes under running water
After swallowing	:Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Treat symptomatically.	
Most important symptoms and effects, both acute and delayed	:No further relevant information available
Indication of any immediate medical attention and special treatment needed	:No further relevant information available

**SECTION 5: Fire-fighting Measures**

**5.1 Suitable (and unsuitable) extinguishing media**

Suitable extinguishing agents	:Use alcohol resistant foam, carbon dioxide, or dry chemical when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the surface of the fire. Do not direct a stream of water into the hot burning liquid.
Special hazards arising from the substance or mixture	:Material may be ignited only if preheated to temperatures above the high flash point, for example in a fire.

**5.2 Advise for Firefighters**

Protective equipment	:Do not enter fire area without proper protection including self- contained breathing apparatus and full protective equipment. Use methods for the surrounding fire.
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**SECTION 6: Accidental Release Measures**

**Personal precautions, protective equipment and emergency procedures**

**General Measures:** No data available

**Environmental precautions**

Do not flush to sewer.

Avoid runoff into storm sewers and ditches that lead to waterways.

Remove from water surface by skimming or with suitable absorbents. Do not use dispersants.

**Methods and material for containment and cleaning up**

**Methods for cleaning up:** Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Dispose of according to Federal, State, Local, or Provincial regulations. Used fluid should be disposed of at a recycling center.

**Reference to other sections**

Follow all protective equipment recommendations provided in Section 8.

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### SECTION 7: Handling & Storage

Precautions for safe handling  
Information about protection against  
explosions and fires

:Harmful or irritating material. Avoid contacting and avoid breathing the material. Use only in a well ventilated area. Empty containers may retain product residues/ vapors. Use proper bonding and grounding during bulk product transfer. Follow all protective equipment recommendations provided in Section 8.

Conditions for safe storage, including any incompatibilities :No special measures required

#### 7.1 Storage

Requirements to be met by storerooms and receptacles  
Information about storage in one  
Common storage facility  
Further information about storage conditions  
Specific end use(s)

:No special requirements  
:Not required  
:None  
:Motor Oil

### SECTION 8: Exposure Controls/Personal Protection

Chemical Component	OSHA PEL	ACGIH TLV	ACGIH STEL	IDLH
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No Data Available
Petroleum distillates, hydrotreated heavy paraffinic	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No Data Available
Petroleum distillates, solvent dewaxed heavy paraffinic	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	No Data Available

#### Exposure controls

Engineering Measures	No engineering controls are likely to be required to maintain operator comfort under normal conditions of use.
Respiratory Protection	No respiratory protection required under normal conditions of use.
Respirator Type(s) exposure	None required where adequate ventilation is provided. If airborne concentrations are above the applicable limits, use NIOSH/MSHA approved respiratory protection.
Eye Protection	No special requirements under normal industrial use.
Skin Protection	Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene.
Wash hands	and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves	Neoprene, Nitrile

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### SECTION 9: Physical & Chemical Properties

#### 9.1 Information on basic physical and chemical properties

##### Appearance

Physical state	: Liquid
Colour	: See product
Odour	: Mild
Odour threshold	: No data available
pH	: No data available

##### Change in Condition

Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: >438°F (>226°C)
Flammability (solid, gas)	: Nonflammable.

##### Ignition Temperature

Decomposition temperature	: No data available
Auto-ignition temperature	: No data available
Danger of Explosion	: No data available

##### Explosion Limits

Lower	: 1
Upper	: 10
Vapour pressure	: No data available
Relative vapour density at 20 °C	: 0.85
Relative density	: No data available
Vapor density	: No data available
Evaporation rate	: No data available
Solubility in/Miscibility with water	: Negligible
Partition coefficient (n-octanol/water)	: Not determined

##### Viscosity

Viscosity, kinematic	: 81.3
Viscosity, dynamic	: Varies with grade
Explosive limits	: No data available

##### Solvent Content

Organic solvent	: No data available
Other information	: No further information

### SECTION 10: Stability & Reactivity

Reactivity	:No further relevant information available
Chemical stability	:Stable under normal conditions
Thermal decomposition / conditions to be avoided	:No decomposition if used according to specifications
Possibility of hazardous reactions	:Hazardous polymerization will not occur
Conditions to avoid	:Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Moisture (will lead to product performance degradation).
Incompatible materials	:Strong oxidizing agents
Hazardous decomposition products	:Carbon monoxide, smoke

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### SECTION 11: Toxicology Information

<b>Ingestion Toxicity</b>	:Likely to be practically non-toxic by ingestion based on animal data.
<b>Skin Contact</b>	:Likely to be non-irritating to skin based on animal data.No hazard in normal industrial use.
<b>Absorption</b>	:Likely to be practically non-toxic based on animal data.
<b>Inhalation Toxicity</b>	:No hazard in normal industrial use. Likely to be practically non-toxic based on animal data.
<b>Eye Contact</b>	:This material is likely to be non-irritating to eyes based on animal data. No hazard in normal industrial use.
<b>Sensitization</b>	:Non-hazardous under Respiratory Sensitization category. No data available to indicate product or components may be a skin sensitizer.
<b>Mutagenicity</b>	:No data available to indicate product or any components present at greater than 0.1% is mutagenic or genotoxic.
<b>Carcinogenicity</b>	:Not expected to cause cancer. This product meets the IP-346 criteria of <3% PAH's and is not considered a carcinogen by the International Agency for Research on Cancer.
<b>Reproductive and Developmental Toxicity</b>	:No data available to indicate product or any components present at greater than 0.1% may cause birth defects.
<b>Specific target organ toxicity-Single exposure</b>	:Non-hazardous under Specific Target Organ Systemic Toxicity Single Exposure category.
<b>Specific target organ toxicity-Repeated exposure</b>	:Non-hazardous under Specific Target Organ Systemic Toxicity Repeated Exposure category.
<b>Long-Term (Chronic) Health Effects</b>	:No data available.
<b>Aspiration toxicity</b>	:Non-hazardous under Aspiration category.
<b>Other information</b>	:No data available.
<b><u>Agents Classified by IARC Monographs</u></b>	
Not applicable	IARC Group 1
Not applicable	IARC Group 2A
Not applicable	IARC Group 2B
<b><u>National Toxicity Program (NTP) Status</u></b>	
Not applicable	Known Human Carcinogen
Not applicable	Reasonably Anticipated To Be A Human Carcinogen

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Petroleum distillates, solvent dewaxed Dewaxed heavy paraffinic	Oral LD50 Rat > 15000 mg/kg	Dermal LD50 Rabbit > 5000 mg/kg	Inhalation LC50 (4h) Rat = 2.18 mg/L
There are no components that are known or reported to cause cancer			

### SECTION 12: Ecological Information

Chemical Name	CAS#	Aquatic EC50 Crustacea	Aquatic ERC50 Algae	Aquatic LC50 Fish
Petroleum distillates, solvent dewaxed Dewaxed heavy paraffinic	64742-65-0	Aquatic LC50 (48h) > 1000 mg/L	No Data Available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L
Petroleum distillates, solvent dewaxed Dewaxed heavy paraffinic	64742-54-7	Aquatic LC50 (48h) > 1000 mg/L	No Data Available	Aquatic LC50 (96h) Rainbow Trout > 5000 mg/L
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	Aquatic EC50 (48h) Daphnia > 1000 mg/L	No Data Available	Aquatic LC50 (96h) > 5000 mg/L

Toxicity	:Non-hazardous under Aquatic Acute Environment category
Aquatic toxicity	:Severe ecological hazard. This product may be toxic to plants and/or wildlife.
Persistence and degradability	:Biodegrades slowly
Bioaccumulative potential	:Bioconcentration may occur
Mobility in soil	:This material is expected to have essentially no mobility in soil. It absorbs strongly to most soil types.
<b>Additional ecological information</b>	
General notes	: Not applicable
<b>Results of PBT and vPvB assessment</b>	
PBT	:Not applicable
vPvB	:Not applicable
Other adverse effects	:No further relevant information available

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**SECTION 13: Disposal Considerations**

**Disposal Methods**

Dispose of according to Federal, State, Local, or Provincial regulations. Recycle used oil.

**Waste Disposal Code(s)**

**Waste Description for Spent Product**

Spent or discarded material is non-hazardous according to environmental regulations.

**Contaminated packaging:**

Recycle containers whenever possible.

**SECTION 14: Transport Information**

**UN-Number**

DOT, ADN, IMDG, IATA :Non-regulated material

ADR :Non-regulated material

**UN proper shipping name**

DOT, ADR, ADN, IMDG, IATA :Non-regulated material

**Transport hazard class(es)**

DOT, ADR, ADN, IMDG, IATA Class :Non-regulated material

**Packing group**

DOT, ADR, IMDG, IATA :Non-regulated material

**Environmental hazards**

Marine pollutant :No

Special precautions for user :Not applicable

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code :Not applicable

UN "Model Regulation" —

**SECTION 15: Regulatory Information**

Chemical Inventories

**U.S. State Restrictions** :Not applicable

**WHMIS** :Uncontrolled product according to WHMIS classification criteria.

**Chemical Name**

None.

None.

None.

None.

**Regulation**

CERCLA

SARA 313

SARA EHS

TSCA 12b

**CAS #**

%

**U.S. State Regulations**

**Chemical Name**

None.

None.

None.

None.

None.

None.

None.

None.

None.

**Regulation**

California Prop 65-Cancer

California Prop 65- Dev.Toxicity

California Prop 65-Reprod -fem

California Prop 65-Reprod-male

Massachusetts RTK List

New Jersey RTK List

Pennsylvania RTK List

Rhode Island RTK List

Minnesota Hazardous

**CAS #**

%

**Substance List**

**HMIS Ratings:**

Health: 0

Fire: 1

Reactivity: 0

PPE: B

**NFPA Ratings:**

Health: 0

Fire: 1

Reactivity: 0

KEY: 0 - Least 1 - Slight 2 - Moderate 3 - High 4 – Extreme

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### SECTION 16: Regulatory Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

Date of preparation / last revision 02/08/2020 / 2

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways IMDG: International Maritime Code for Dangerous Goods

Abbreviations and acronyms DOT:

US Department of Transportation  
IATA: International Air Transport Association  
ACGIH: American Conference of Governmental Industrial Hygienists  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)