

Tribodyne® Tri-Ex² Synthetic Gear Oils

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Tuesday, December 29, 2015 / Rules and Regulations
Date of issue: 12/01/2021 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product Form : Mixture
Product Name : Tribodyne® Tri-Ex² 75W-90, 75W-140, 50W Synthetic Gear Oils

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

1.4. Emergency telephone number

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

SECTION 2: Hazard(s) Identification

Classification of the substance or mixture : Skin sensation category 1

2.1 Label Elements GHS Hazard Symbols



Signal Word

Hazard Statements

Precautionary Statements

Prevention

Response

Disposal

Warning

H317 - May cause an allergic skin reaction.

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - IF ON SKIN: Wash with plenty of soap and water.

P321 - Specific treatment (see section 4).

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

P363 - Wash contaminated clothing before reuse.

P501 - Dispose of contents/container in accordance with local/regional/national/international regulations.

2.2 Other hazards not otherwise classified

Avoid prolonged or repeated skin contact with used fluid.

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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
Mineral Oil	8012-95-1	1-5	Acute Tox. 3; H331

SECTION 4: First-Aid Measures

4.1 Description of first aid measures

General information	:No special measures required
After inhalation	:Remove to fresh air. If breathing is difficult, have a trained individual administer oxygen. If not breathing, give artificial respiration and have a trained individual administer oxygen. Get medical attention immediately.
After skin contact	:Generally, the product does not irritate the skin
After eye contact	:Flush eyes with plenty of water for at least 20 minutes retracting eyelids often. :Tilt the head to prevent chemical from transferring to the uncontaminated eye. :Get immediate medical attention.
After swallowing	:Do not induce vomiting and seek medical attention immediately. Provide medical care provider with this SDS.
Most important symptoms and effects, both acute and delayed	:No further relevant information available
Indication of any immediate medical attention and special treatment needed	:Aspiration during swallowing or vomiting may severely damage the lungs. If evacuation of stomach contents is necessary, use method least likely to cause aspiration.

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: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

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.
Conditions for safe storage, including any incompatibilities	:Store in a cool dry place. Isolate from incompatible materials.

7.1 Storage

Requirements to be met by storerooms and receptacles Information about storage in one Common storage facility	:No special requirements :Not required
Further information about storage conditions Specific end use(s)	:None :Gear Oil

SECTION 8: Exposure Controls/Personal Protection

Control parameters

Chemical Name	Occupational Exposure Limits	Value
Oil mist, mineral	OSHA PEL	5 mg/m ³
Oil mist, mineral	OSHA PEL	5 mg/m ³ TWA
Oil mist, (mineral)	OSHA STEL	10 mg/m ³ STEL
Oil mist, mineral	ACGIH TLV-TWA	5 mg/m ³ TWA
Mineral Oil	ACGIH TLV-TWA	5 mg/m ³ (excluding metal working fluids, highly & severely refined, inhalable fraction)
Oil mist, mineral	ACGIH STEL	10 mg/m ³
Oil mist, (mineral)	IDLH	2500 mg/m ³ IDLH
None.	OSHA PEL-Skin Notation	

Exposure controls

Engineering Measures	Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort. Engineering controls must be designed to meet the OSHA chemical specific standard in 29 CFR 1910. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Facilities storing or using this material should be equipped with an eyewash and safety shower.
Respiratory Protection	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. Follow a respiratory protection program that meets 29 CFR 1910.134 and ANSI Z88.2 requirements whenever work place conditions warrant the use of a respirator. Wear a NIOSH approved respirator if any exposure is possible.
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	Wear chemically resistant safety glasses with side shields when handling this product. Do not wear contact lenses. Wear goggles and a Face shield.
Skin Protection	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where contact is likely, wear chemical resistant gloves, a chemical suit, rubber boots, and chemical safety goggles plus a face shield. 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	: >410°F (>210°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	: <0.20
Relative vapour density at 20 °C	: 0.87
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	: 109.7
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

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

SECTION 12: Ecological Information

Toxicity	:Non-hazardous under Aquatic Acute Environment category
Aquatic toxicity	:Non-hazardous under Aquatic Chronic Environment category
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.
Additional ecological information	
General notes	:Generally not hazardous for water
Results of PBT and vPvB assessment	
PBT	:Not applicable
vPvB	:Not applicable
Other adverse effects	:No further relevant information available

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.

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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	Regulation	CAS #	%
None.	CERCLA		
None.	SARA 313		
None.	SARA EHS		
None.	TSCA 12b		

U.S. State Regulations

Chemical Name	Regulation	CAS #	%
None.	California Prop 65-Cancer		
None.	California Prop 65- Dev.Toxicity		
None.	California Prop 65-Reprod -fem		
None.	California Prop 65-Reprod-male		
Oil, mineral	Massachusetts RTK List	8012-95-1	1-5
Mineral oils, highly refined	New Jersey RTK List	8012-95-1	1-5
Mineral oil	Pennsylvania RTK List	8012-95-1	1-5
None.	Rhode Island RTK List		
Oil mist, mineral	Minnesota Hazardous	8012-95-1	1-5

Substance List

HMIS Ratings:	NFPA Ratings:
Health: 2	Health: 2
Fire: 1	Fire: 1
Reactivity: 0	Reactivity: 0
PPE: B	

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 12/01/2021 / 3

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)