



SAFETY DATA SHEET

According to Canadian Hazardous Products Regulations (HPR) (SOR/2015/17)

SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

1. IDENTIFICATION

Product identifier

Product name DYNATRANS AC 10W

Other means of identification

Product Code(s) 087318

Number MOQ
Substance/mixture Mixture

Recommended use of the chemical and restrictions on use

Identified uses Transmission 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 TOTAL CANADA INC.
220, LAFLEUR
LASALLE, QUEBEC
H8R 4C9
Tel: (514) 595-7579
Fax: (514) 595-5950

Contact Point service HSE

E-mail Address info@total-lub.ca

Emergency telephone number

Emergency telephone 1-800-463-3955
Company Phone Number +1 866 928 0789 (24h/24, 7d/7)
+1 215 207 0061 (24h/24, 7d/7)

2. HAZARDS IDENTIFICATION

Classification

Serious eye damage/eye irritation - Category 2A

Label elements

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

**WARNING****Hazard Statements**

Causes serious eye irritation

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection

Wash hands and face thoroughly after handling

Precautionary Statements - Response**Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 If eye irritation persists: Get medical advice/attention

Unknown acute toxicity

39.9 % of the mixture consists of ingredient(s) of unknown toxicity

Other information**Physical-Chemical Properties**

Contaminated surfaces will be extremely slippery.

Environmental properties

The product may form an oil film on the water surface that may stop the oxygen exchange.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Chemical nature**

Mineral oil of petroleum origin.

Chemical Name	EC-No	CAS-No	Weight %
Distillates (petroleum), hydrotreated heavy paraffinic	265-157-1	64742-54-7	30-<40
Dec-1-ene, trimers, hydrogenated	-	157707-86-3	30-<40
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased	272-234-3	68784-26-9	1-<2.5
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)	224-235-5	4259-15-8	1-<2.5
Phenol, dodecyl-, branched	310-154-3	121158-58-5	0.1-<0.25

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Additional information

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346

4. FIRST AID MEASURES**First aid measures for different exposure routes**

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse.
Inhalation	remove casualty to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration.
Ingestion	Clean mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Protection of First-aiders	First aider needs to protect himself. See Section 8 for more detail. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms/effects, acute and delayed

Skin contact	Not classified based on available data. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact	Causes serious eye irritation.
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Symptoms	No information available.

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

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

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Version 1

<u>Suitable Extinguishing Media</u>	Carbon dioxide (CO ₂). ABC powder. Foam. Water spray or fog.
<u>Unsuitable Extinguishing Media</u>	Do not use a solid water stream as it may scatter and spread fire.
<u>Special Hazard</u>	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. Phosphorous oxides.
<u>Explosion Data</u>	
<u>Sensitivity to Mechanical Impact</u>	None.
<u>Sensitivity to Static Discharge</u>	None.
<u>Special protective equipment for fire-fighters</u>	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 Do not touch or walk through spilled material. Contaminated surfaces will be extremely slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition.

Other information See Section 12 for additional information.

Environmental precautions

General Information Do not allow material to contaminate ground water system. Prevent entry into waterways, sewers, basements or confined areas. Local authorities should be advised if significant spillages cannot be contained.

Methods and material for containment and cleaning up

Methods for containment Dike to collect large liquid spills. If necessary dike the product with dry earth, sand or similar non-combustible materials.

Methods for cleaning up Dispose of contents/container in accordance with local regulation. In case of soil contamination, remove contaminated soil for remediation or disposal, in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling 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.

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Prevention of fire and explosion	Take precautionary measures against static discharges.
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. Wash hands before breaks and immediately after handling the product. Regular cleaning of equipment, work area and clothing is recommended. Do not use abrasives, solvents or fuels. 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 away from food, drink and animal feedingstuffs. Keep in a bunded area. Keep container tightly closed. 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. Store at room temperature. Protect from moisture.
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Materials to Avoid	Strong oxidizing agents.
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m ³ , NIOSH (REL) TWA 5 mg/m ³ , STEL 10 mg/m ³ , ACGIH (TLV) TWA 5 mg/m ³ (highly refined).
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Legend	See section 16
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Exposure controls

Engineering Measures	Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
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Individual protection measures, such as personal protective equipment

General Information	Protective engineering solutions should be implemented and in use before personal protective equipment is considered. The personal protective equipment (PPE) recommendations apply to the product ITSELF. In case of mixtures or formulations, it is suggested that you contact the relevant PPE suppliers.
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields.

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Skin and body protection

Wear suitable protective clothing. Protective shoes or boots.

Hand Protection

Hydrocarbon-proof gloves: Fluorinated rubber. Nitrile rubber. 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

None under normal use conditions. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapor/particulate. Warning ! filters have a limited use duration. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.

9. PHYSICAL AND CHEMICAL PROPERTIES**Physical and chemical properties**

Appearance

limpid

Color

No information available

Physical State @20°C

liquid

Odor

Characteristic

Odor Threshold

No information available

Property**Values****Remarks****Method**

pH

No information available

Melting point/range

No information available

Boiling point/boiling range

No information available

Flash point

> 230 °C
> 446 °F

No information available

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

No information available

Vapor density

No information available

Relative density

0.850

@ 15 °C

ASTM D445

Density

850 kg/m³

@ 15 °C

ASTM D445

Water solubility

Insoluble

Solubility in other solvents

No information available

logPow

No information available

Autoignition temperature

No information available

Decomposition temperature

No information available

Viscosity, kinematic

36 mm²/s

@ 40 °C

ASTM D445

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Explosive properties	Not explosive
Oxidizing Properties	Not applicable
Possibility of hazardous reactions	None under normal processing
Other information	

Freezing Point	No information available
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10. STABILITY AND REACTIVITY

Reactivity	None under normal processing.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Keep away from open flames, hot surfaces and sources of ignition. Keep away from heat and sparks.
Incompatible materials	Strong oxidizing agents.
Hazardous Decomposition Products	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. Phosphorous oxides.

11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Symptoms	No information available.
Skin contact	Not classified based on available data. High pressure injection of the products under the skin may have very serious consequences even though no symptom or injury may be apparent.
Eye contact	Causes serious eye irritation.
Inhalation	Not classified based on available data. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified based on available data. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Acute toxicity - Product Information**

Oral	Not classified based on available data
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Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Dermal Not classified based on available data**Inhalation** Not classified based on available data**Acute toxicity - Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	LD50 > 5000 mg/kg bw (rat - OECD 420)	LD50 > 5000 mg/kg bw (rabbit - OECD 402)	LC50 (4h) > 5 mg/l (aerosol) (rat - OECD 403)
Dec-1-ene, trimers, hydrogenated 157707-86-3	LD50 > 5000 mg/kg (rat - OECD 401)	LD50 > 3000 mg/kg (rat - OECD 402)	LC50 (4h) 1.17 mg/l (rat - vapour - OECD 403) LC50 (4h) 0.9 mg/l (rat - vapour - OECD 403) LC50 (4h) 1.4 mg/l (rat - vapour - OECD 403)
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9	LD50 > 5000 mg/kg (Rat - OECD 401)	LD50 > 4000 mg/kg (Rabbit - OECD 402)	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	LD50 3100 mg/kg (Rat - OECD 401)	LD50 > 5000 mg/kg (Rabbit - OECD 402)	
Phenol, dodecyl-, branched 121158-58-5	LD50 2200 mg/kg (Rat)	LD50 15000 mg/kg (Rabbit - male - OECD 402)	

Skin corrosion/irritation Not classified based on available data.**Serious eye damage/eye irritation** Irritating to eyes.**Respiratory or skin sensitization** Not classified based on available data.**Germ cell mutagenicity** Not classified based on available data.**Carcinogenicity** Not classified based on available data.

Chemical Name	ACGIH	IARC	NTP	OSHA
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7				-

Reproductive toxicity Not classified based on available data.**Target Organ Effects (STOT)** None known.**STOT - single exposure** Not classified based on available data.**STOT - repeated exposure** Not classified based on available data.**Aspiration hazard** Not classified based on available data.**12. ECOLOGICAL INFORMATION****Ecotoxicity****Acute aquatic toxicity - Product Information**

No information available

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	EL50 (48h) > 100 mg/l (Pseudokirchnerella subcapitata - OECD 201)	LL50 (96h) > 100 mg/l (Oncorhynchus mykiss - OECD 203)	EL50 (48h) > 10000 mg/l (Daphnia magna - OECD 202)	
Dec-1-ene, trimers, hydrogenated 157707-86-3	EL50 (72h) > 1000 mg/l (Scenedesmus capricornutum - OECD 201) NOELR (72h) 1000 mg/l (Scenedesmus capricornutum - OECD 201)	LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss)	EL50 (48h) > 150 mg/l (Daphnia magna) LL50 (96h) > 5002 ppm (Americamysis bahia - OECD 202)	
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9		LL50 (96h) > 1000 mg/l Pimephales promelas semi-static (OECD 203)	EL50 (48h) > 1000 mg/l Daphnia magna static (OECD 202)	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	EC50 (72h) > 240 mg/L (Desmodesmus subspicatus)	LC50(96h) 46 mg/l	EC50(48h) 75 mg/l	
Phenol, dodecyl-, branched 121158-58-5	EbC50 (72h) 0.15 mg/l (Scenedesmus subspicatus - OECD 201)	EL50 (96h) 40 mg/l (Pimephales promelas - OECD 203)	EC50 (48h) 0.037 mg/l (Daphnia magna - OECD 202)	

Chronic aquatic toxicity - Product Information

No information available

Chronic aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7		NOEL (21d) 10 mg/l (Daphnia magna - QSAR Petrotox)	NOEL (14/28d) > 1000 mg/l (Oncorhynchus mykiss - QSAR Petrotox)	
Dec-1-ene, trimers, hydrogenated 157707-86-3	NOELR (72h) 1000 mg/l (Scenedesmus capricornutum - OECD 201)	NOELR (21d) 125 mg/l (Daphnia magna - OECD 211) NOELR (96h) 5002 ppm (Americamysis bahia - OECD 202)	NOELR (96h) 1000 mg/l (Oncorhynchus mykiss)	
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate)		NOEC(21d) 0.4-0.8 mg/l		

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

4259-15-8				
Phenol, dodecyl-, branched 121158-58-5		NOEC (21d) 0.004 mg/l (Daphnia magna - semi static - OECD211)		

Effects on terrestrial organisms No information available.**Persistence and degradability**

No information available

Bioaccumulative potential**Product Information** No information available.**logPow** No information available**Component Information**

Chemical Name	log Pow
Distillates (petroleum), hydrotreated heavy paraffinic 64742-54-7	-
Phenol, dodecyl-, sulfurized, carbonates, calcium salts, overbased 68784-26-9	9.5
zinc bis[O,O-bis(2-ethylhexyl)] bis(dithiophosphate) 4259-15-8	3.59
Phenol, dodecyl-, branched 121158-58-5	7.14

Mobility**Soil** Given its physical and chemical characteristics, the product generally shows low soil mobility**Air** Loss by evaporation is limited**Water** The product is insoluble and floats on water**Other adverse effects****General Information** No information available**13. DISPOSAL CONSIDERATIONS****Waste treatment****Waste from residues/unused products**

Should not be released into the environment. Do not empty into drains. Dispose of in accordance with all applicable national environmental laws and regulations. Where possible recycling is preferred to disposal or incineration. Other Regulatory Status: No Canadian federal standard; however, for general discharge guidance, federal installations limited to

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

15 mg/L for total oil and grease. Provincial criteria are likely and should be requested when notifying provincial authorities.

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

<u>TDG</u>	Not regulated
<u>DOT</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

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) (SOR/2015/17) and the Safety Data Sheet (SDS) contains all the information required by the HPR

International Inventories

All the substances contained in this product are listed or exempted from listing in the following inventories:
Canada (DSL/NDSL)
U.S.A. (TSCA)

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

<u>NFPA</u>	Health Hazard 1	Flammability 1	Instability 0	Special hazards -
<u>HMIS</u>	Health Hazard 1	Flammability 1	Physical Hazard 0	Personal protection X

Revision Date: 2017-08-30
Revision Note: Initial Release

Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

Version HGHS



SDS # : 087318

DYNATRANS AC 10W

Date of the previous version: not applicable

Revision Date: 2017-08-30

Version 1

bw = body weight

bw/day = body weight/day

EC x = Effect Concentration associated with x% response

GLP = Good Laboratory Practice

IARC = International Agency for Research of Cancer

LC50 = 50% Lethal concentration - Concentration of a chemical in air or a chemical in water which causes the death of 50% (one half) of a group of test animals

LD50 = 50% Lethal Dose - Chemical amount, given at once, which causes the death of 50% (one half) of a group of test animals

LL = Lethal Loading

NIOSH = National Institute of Occupational Safety and Health

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

NOEL = No Observed Effect Level

OECD = Organization for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

UVCB = Substance of unknown or Variable composition, Complex reaction products or Biological material

NTP = National Toxicology Program

Section 8

TWA - Time Weight Average

STEL - Short Term Exposure Limits

+	Sensitizer	*	Skin designation
C:	Carcinogen	R:	Toxic to reproduction
Ceiling:	Ceiling Limit Value		

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