

## SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**SDS # :** 36466

# **DYNATRANS AC 30**

### Date of the previous version: 2015-03-31

Revision Date: 2016-06-07

Version 4

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name	DYNATRANS AC
Number	MOW
Substance/mixture	Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

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#### **Identified uses**

Transmission fluid.

### 1.3. Details of the supplier of the safety data sheet

Supplier	TOTAL LUBRIFIANTS 562 Avenue du Parc de L'ile
	92029 Nanterre Cedex
	FRANCE
	Tél: +33 (0)1 41 35 40 00
	Fax: +33 (0)1 41 35 84 71

### For further information, please contact:

Contact Point	HSE
E-mail Address	rm.msds-lubs@total.com

## 1.4. Emergency telephone number

#### +33 1 49 00 00 49 (24h/24, 7d/7)

France - ORFILA (INRS) Tél : +33 (0)1 45 42 59 59

In France : - PARIS : Hôpital Fernand Widal 200, rue du Faubourg Saint-Denis 75475 Paris Cédex 10, Tel : 01.40.05.48.48. - MARSEILLE : Hopital Salvator, 249 bd Ste Marguerite 13274 Marseille cedex 5, Tel : 04.91.75.25.25. - LYON : Hopital Edouard Herriot, 5 place d'Arsonvol, 69437 Lyon cedex 3, Tel : 04.72.11.69.11. - NANCY : Hopital central, 29 Av du Mal De Lattre de Tassigny, 54000 Nancy, Tel : 03.83.32.36.36 ou le SAMU : Tel (15)

Section 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

## REGULATION (EC) No 1272/2008 \*\*\*

For the full text of the H-Statements mentioned in this Section, see Section 2.2.\*\*\*

### Classification

The product is classified as dangerous in accordance with Regulation (EC) No. 1272/2008 Serious eye damage/eye irritation - Category 2\*\*\* - (H319)\*\*\*



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2.2. Label elements

Labelled according to

REGULATION (EC) No 1272/2008\*\*\*



Signal Word WARNING\*\*\*

Hazard Statements \*\*\* H319 - Causes serious eye irritation\*\*\*

Precautionary Statements P280 - Wear eye protection/ face protection\*\*\*

**Supplemental Hazard Statements** 

EUH208 - Contains Long-chain alkyl anhydride. May produce an allergic reaction\*\*\*

## 2.3. Other hazards

Physical-Chemical Properties Contaminated surfaces will be extremely slippery.\*\*\*

Environmental properties Should not be released into the environment.\*\*\*

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

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## 3.2. Mixture\*\*\*

#### Hazardous ingredients

Chemical Name	EC-No	REACH registration No	CAS-No	Weight %	Classification (Reg. 1272/2008)
Zinc alkyl dithiophosphate***	272-028-3***	no data available	68649-42-3	1-<2.5	Eye Dam. 1 (H318) Aquatic Chronic 2 (H411) ***
Long-chain alkyl anhydride***	-	no data available	۸	0.1-<1	STOT SE 3 (H335) Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1 (H317)

Additional information

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

For the full text of the H-Statements mentioned in this Section, see Section 16.



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## Section 4: FIRST AID MEASURES

### 4.1. Description of first-aid measures

General advice	IN CASE OF SERIOUS OR PERSISTENT CONDITIONS, CALL A DOCTOR OR EMERGENCY MEDICAL CARE.		
Eye contact	Rinse thoroughly with plenty of water, also under the eyelids.		
Skin contact	Remove contaminated clothing and shoes. Wash off with soap and water. Wash contaminated clothing before reuse.		
Inhalation	Move to fresh air.		
Ingestion	Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.		
4.2. Most important symptoms and effects, both acute and delayed			
Eye contact	Causes serious eye irritation.***		

_)******	
Skin contact	Not classified. May produce an allergic reaction.***
Inhalation	Not classified. Inhalation of vapors in high concentration may cause irritation of respiratory system.
Ingestion	Not classified. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

Notes to physician	Treat symptomatically.
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## Section 5: FIRE-FIGHTING MEASURES

## 5.1. Extinguishing media

Suitable Extinguishing Media	Carbon dioxide (CO 2). ABC p	powder. Foam. Water spray or fog.
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Unsuitable Extinguishing Media Do not use a solid water stream as it may scatter and spread fire.

### 5.2. Special hazards arising from the substance or mixture

Special HazardIncomplete combustion and thermolysis may produce gases of varying toxicity such as<br/>carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot. These may<br/>be highly dangerous if inhaled in confined spaces or at high concentration.

## 5.3. Advice for fire-fighters

Special protective equipment for Wear self-contained breathing apparatus and protective suit.



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## fire-fighters Other information Cool containers / tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Section 6: ACCIDENTAL RELEASE MEASURES Personal precautions, protective equipment and emergency procedures 6.1. Do not touch or walk through spilled material. Contaminated surfaces will be extremely **General Information** slippery. Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. 6.2. Environmental precautions **General Information** Do not allow material to contaminate ground water system. Try to prevent the material from entering drains or water courses. Local authorities should be advised if significant spillages cannot be contained. 6.3. Methods and materials for containment and cleaning up Dam up. Contain spillage, and then collect with non-combustible absorbent material, (e.g. Methods for cleaning up sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. 6.4. Reference to other sections **Personal Protective Equipment** See Section 8 for more detail. Waste treatment See section 13. Section 7: HANDLING AND STORAGE 7.1. Precautions for safe handling

Advice on safe handling	When using, do not eat, drink or smoke. 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.
Prevention of fire and explosion	Take precautionary measures against static discharges: Ground/bond containers, tanks and transfer/receiving equipment.
Hygiene measures	Ensure the application of strict rules of hygiene by the personnel exposed to the risk of contact with the product. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. 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.

7.2. Conditions for safe storage, including any incompatibilities



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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. Protect from frost, heat and sunlight. Protect from moisture.
Materials to Avoid	Strong oxidizing agents.
7.3. Specific end uses	
Specific use(s)	No information available.
Section 8: EXPOSURE CON	TROLS/PERSONAL PROTECTION
8.1. Control parameters	
Exposure limits	Mineral oil mist: USA: OSHA (PEL) TWA 5 mg/m³, NIOSH (REL) TWA 5 mg/m³, STEL 10 mg/m³, ACGIH (TLV) TWA 5 mg/m³ (highly refined)
Legend	See section 16
8.2. Exposure controls	
Occupational Exposure Controls	
Engineering Measures	Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.
Personal Protective Equipment	
General Information	If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.
Respiratory protection	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Respirator with combination filter for vapour/particulate (EN 14387), Type A/P1. The use of breathing apparatus must comply strictly with the manufacturer's instructions and the regulations governing their choices and uses.***
Eye Protection	If splashes are likely to occur, wear:. Safety glasses with side-shields.
Skin and body protection	Wear suitable protective clothing. Protective shoes or boots. Long sleeved clothing.
Hand Protection	Hydrocarbon-proof gloves: Fluorinated rubber, Nitrile rubber. In case of prolonged contact with the product, it is recommended to wear gloves complying with EN 420 and EN 374 standards, protecting at least for 480 minutes and having a thickness of 0,38 mm at least. These values are indicative only. The level of protection is provided by the material of the glove, its technical characteristics, its resistance to the chemicals to be handled, the appropriateness of its use and its replacement frequency.***



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## **Environmental exposure controls**

**General Information** 

The product should not be allowed to enter drains, water courses or the soil.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

Appearance Color Physical State @20°C Odor Odor Threshold		limpid yellow To amber brown*** liquid*** Characteristic*** No information available	
<u>Property</u> pH Melting point/range	Values_	Remarks Not applicable*** Not applicable***	<u>Method</u>
Boiling point/boiling range		No information available***	
Flash point ***	> 210*** °C***		Cleveland Open Cup (COC) Open cup***
	> 410*** °F***		Cleveland Open Cup (COC) Open cup***
Evaporation rate Flammability Limits in Air		No information available*** No information available	Open cup
Vapor Pressure		No information available***	
Vapor density Relative density ***	*** 0.891*** -*** 0.901***	No information available*** @ 15 °C ***	ISO 12185 ***
Density	891*** - *** 901*** kg/m <sup>3***</sup>	@ 15 °C***	ISO 12185***
Water solubility Solubility in other solvents	5	Insoluble Soluble in many common organic solvents	
logPow Autoignition temperature Decomposition temperature		No information available*** No information available*** No information available	
Viscosity, kinematic ***	*** 105.1*** mm2/s*** *** 11.5*** -*** 12.5*** mm2/s***	@ 40 °C ***	ISO 3104 *** ***
Explosive properties Oxidizing Properties Possibility of hazardous reactions	Not explosive*** No information available No information available*	**	

9.2. Other information



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Freezing Point		No information availa	able	
Pour point ***	*** -18*** °C***	***	***	
Section 10: STABILITY	AND REACTIVITY			
10.1. Reactivity				
General Information	No information availa	able.		
10.2. Chemical stability	У			
Stability	Stable under recomm	nended storage conditions		
10.3. Possibility of haza	ardous reactions			
Hazardous Reactions	None under normal p	processing.		
10.4. Conditions to Ave	pid			
Conditions to Avoid	Heat (temperatures a	above flash point), sparks,	ignition points, flames, s	tatic electricity.
10.5. Incompatible Mat	erials			
Materials to Avoid	Strong oxidizing ager	nts.		
10.6. Hazardous Decon	nposition Products			
Hazardous Decomposition Pro	ducts None under normal u	ISE.		
Section 11: TOXICOLOG	ICAL INFORMATION	1		
11.1. Information on to	xicological effects			
Acute toxicity Local effects Pr	oduct Information			
Skin contact Eye contact Inhalation Ingestion	. Causes serious eye . Not classified. Inha respiratory system.	produce an allergic reaction e irritation.*** lation of vapors in high constitution may cause gastrointe	ncentration may cause ir	

IngestionNot classified. Ingestion may cau<br/>diarrhea.ATEmix (dermal)85,619.00 mg/kgATEmix (inhalation-dust/mist)138.60 mg/lATEmix (inhalation-vapor)1,986.20 mg/l

## Acute toxicity - Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation



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Zinc alkyl dithiophosphate***	LD50 2230 mg/kg (Rat)***	LD50 > 2000 mg/kg (Rat)	
Long-chain alkyl anhydride***	LD50 > 5000 mg/kg (Rat)	LD50 > 5000 mg/kg (Rabbit)	LC50 (4h) > 1.22 mg/l (Rat - Vapours)
<u>Sensitization</u>			
Sensitization	Not classified as a sensitizer. Contains sensitizer(s). May produce an allergic reaction.***		
Specific effects			
Carcinogenicity	This product is not classified carcinogenic.		
Mutagenicity	This product is not classified as mutagenic.		
Reproductive toxicity	This product does not present any known or suspected reproductive hazards.		
Repeated Dose Toxicity			
Subchronic toxicity	No information available.		
Target Organ Effects (STOT)			
Target Organ Effects (STOT)	No information available.		
Other information			
Other adverse effects	Characteristic skin lesions (pimples) may develop following prolonged and repeated exposures (contact with contaminated clothing).		

## Section 12: ECOLOGICAL INFORMATION

## 12.1. Toxicity

Not classified. The supplier of one of the components contained within this formulation has indicated that they have data, which confirms that at the concentration used, no aquatic environmental hazard classification is required.

## Acute aquatic toxicity - Product Information

No information available.

## Acute aquatic toxicity - Component Information

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Toxicity to microorganisms
Zinc alkyl dithiophosphate***	EC50 (72h) 2 mg/l (Algae)	EC50 (48h) 5.4 mg/l	LC50 (96h) 4.5 mg/l (Fish)	
68649-42-3		(Daphnia magna)		

### 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
Zinc alkyl dithiophosphate***			NOEC (28d) 1.8 mg/l (Fish)	



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68649-42-3

## Effects on terrestrial organisms

No information available.

## 12.2. Persistence and degradability

### **General Information**

No information available.

## 12.3. Bioaccumulative potential

**Product Information** 

No information available.

logPow	No information available	***		
Component Information				
Chemica		log Pow		
Zinc alkyl dithiophosp	hate*** - 68649-42-3	0.56		
12.4. Mobility in soil				
Soil	Given its physical and ch mobility.	nemical characteristics, the product generally shows low soil		
Air	Loss by evaporation is li	Loss by evaporation is limited.		
Water	Insoluble. The product s	Insoluble. The product spreads on the surface of the water.		
12.5. Results of PBT an	d vPvB assessment			
PBT and vPvB assessment	No information available			
12.6. Other adverse eff	ects			
General Information	No information available			
Section 13: DISPOSAL C	ONSIDERATIONS			

## 13.1. Waste treatment methods

Waste from Residues / Unused Products	Should not be released into the environment. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations. Where possible recycling is preferred to disposal or incineration. After use, this oil must be sent to a licensed waste oil facility. Incorrect disposal of used oil poses a risk to the environment. Mixture with other waste types such as solvents, brake- and cooling liquids is forbidden.
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal.



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EWC Waste Disposal No.	The following Waste Codes are only suggestions:. 13 02 05. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.			
Section 14: TRANSPORT	INFORMATION			
ADR/RID	Not regulated			
IMDG/IMO	Not regulated			
	Not regulated			
ADN	Not regulated			

Section 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Further information

No information available

15.2. Chemical Safety Assessment

Chemical Safety Assessment No information available

Section 16: OTHER INFORMATION

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

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H335 - May cause respiratory irritation

H411 - Toxic to aquatic life with long lasting effects

H413 - May cause long lasting harmful effects to aquatic life\*\*\*

## Abbreviations, acronyms

ACGIH = American Conference of Governmental Industrial Hygienists bw = body weight bw/day = body weight/day EC x = Effect Concentration associated with x% response



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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 DNEL = Derived No Effect Level PNEC = Predicted No Effect Concentration dw = dry weight fw = fresh water mw = marine water or = occasional release Legend Section 8 TWA: Time Weight Average STEL: Short Time Exposure Limit PEL: Permissible exposure limit **REL:** Recommended exposure limit **TLV: Threshold Limit Values** + \*\* Sensitizer Skin designation Hazard Designation C: Carcinogen M: Mutagen R: Toxic to reproduction **Revision Date:** 2016-06-07 \*\*\* Indicates updated section. **Revision Note** This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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