

DYNAMAX TB 32, 46**Safety data sheet**

(Regulation 1907/2006/EC, amended by 2015/830/EU)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY / UNDERTAKING**1.1. Product identifier**

Material Name:	DYNAMAX TB 32, TB 46		
CAS:		EINECS:	
		ELINCS:	

1.2. Identified uses

Uses:	Turbine oil
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1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier:	EURO-VAT spol. s r.o.		
IČO:	18049397		
Address:	Alešince 231		
	951 22		
	Alešince (Slovakia)		
Phone/fax number:	+421 37 7822 326-7		
E-mail:	eurovat@eurovat.sk www.eurovat.sk		
Emergency phone number:	Národné toxikologické informačné centrum (NTIC) Klinika pracovného lekárstva a toxikológie, FNsP akad. L.Dérera Limbova 5 833 05 Bratislava Tel. +421 2 5477 4166 ntic@ntic.sk www.ntic.sk		

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] -
2.2 Label elements	Hazard pictograms (CLP/GHS) : No Hazard Symbol required Signal word: - H-phrases: - P-phrases: P273 Avoid release to the environment P501 Dispose of contents/container to a hazardous waste in accordance with relevant legislation Contains: - Precautionary statements Prevention : Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Response : Get medical attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Storage : Store in well closed packing at temperatures of up to 40 °C in a dry room that can be ventilated.

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2.3 Other hazards	<p>Protect against heat and direct sunlight. Do not store near food. Prevent its release to the environment.</p> <p>Disposal : Not applicable.</p> <p>Supplemental label elements: Not applicable.</p> <p>Special packaging requirements</p> <p>Containers to be fitted with child-resistant fastenings: Not applicable.</p> <p>Tactile warning of danger: Not applicable.</p> <p>Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII: Not available.</p> <p>Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII: Not available.</p> <p>Other hazards which do not result in classification: Not available.</p>
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SECTION 3: COMPOSITION/INFORMATION ON IGREDIENTS

Product /ingredient name	CAS	EC	Symbols	Conc.	Registr. no REACH	GHS classification	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	72623-87-1	276-738-4	*	max. 99	01-119484627-25-xxxx	Asp.Tox.1	H304
* The base oils used in the mixtures containing less than 3% DMSO extract by IP 346. According to a note in the classified list of L products are not classified as hazardous substances.							

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	<p>Eye contact: Rinse immediately with plenty of water. Seek medical attention if irritation develops.</p> <p>Inhalation: Assure fresh air breathing. If you feel unwell, seek medical advice.</p> <p>Skin contact: Wash the skin with water and soap and apply skin-protective cream.</p> <p>Ingestion: Do not induce vomiting. If the injured is conscious give 2 glasses of water. Ensure medical assistance immediately</p>
4.2 Most important symptoms and effects, both acute and delayed	<p>Potential acute health effects</p> <p>Eye contact: No known significant effects or critical hazards.</p> <p>Inhalation : No known significant effects or critical hazards.</p> <p>Skin contact : No known significant effects or critical hazards.</p> <p>Ingestion : No known significant effects or critical hazards.</p> <p>Over-exposure signs/symptoms</p> <p>Eye contact : No specific data.</p> <p>Inhalation: No specific data.</p> <p>Skin contact: No specific data.</p> <p>Ingestion: No specific data.</p>
4.3 Indication of any immediate medical attention and special treatment needed	<p>Notes to physician: No specific notes.</p> <p>Specific treatments: No specific treatment.</p>

SECTION 5: FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media	Water fog, carbon dioxide, foam, dry chemical product, sand
5.2. Unsuitable	Do not use a heavy water stream.

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extinguishing media	
5.3. Specific hazards	Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.
5.4. Protective equipment for firefighters	Proper protective equipment including breathing
Additional advice	Flammable liquid IV. class!

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions	Ensure adequate ventilation. Avoid contact with skin and eyes. No smoking.
6.2. Environmental precautions	Do not allow to surface and groundwater. With its breakthrough contact person.
6.3. Clean up methods	Slippery when spilt. Avoid accidents, clean up immediately. Prevent from spreading by making a barrier with sand, earth or other containment material. Reclaim liquid directly or in an absorbent. Soak up residue with an absorbent such as clay sand or other suitable material and dispose of properly. Local authorities should be advised if significant spillages cannot be contained.

SECTION 7: HANDLING AND STORAGE

7.1. Handling	Avoid prolonged or repeated contact with skin. Avoid inhaling vapour and/or mists. When handling product in drums, safety footwear should be worn and proper handling equipment should be used.
7.2 . Storage	Store in well closed packing at temperatures of up to 40 °C in a dry room that can be ventilated. Protect against heat and direct sunlight. Do not store near food. Prevent its release to the environment.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters	Ventilation respectively. exhausting work areas. The work may not be readily combustible substances and other dangerous source of fire.
8.2 Exposure controls	Observe the usual precautions for health at work and in good ventilation. When using do not eat, drink or smoke.
8.2.1 Occupational exposure controls	<ul style="list-style-type: none"> a) Respiratory protection: the use of Filter type A (EN 141) is recommended if exceeding the Occupational Exposure Limit. b) Eye protection: chemical goggles or safety glasses (EN 166) c) Protection of hands: Wear suitable gloves resistant to chemical penetration (EN 374) d) Skin protection: Wear suitable protective clothing (EN 465, EN 466 or EN 467) Other: Protective helmet. Do not wear leather soled shoes.
8.2.2. Environmental exposure controls	To prevent leakage of concentrated mixture into surface water drains or soil. Mixture stored in tightly sealed and labeled containers.
8.3. TWA	Occupational Exposure Standard (OES) of 5mg/m ³ , 8-hour time-weighted average reference period for oil mist.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Fysical state	Oily liquid
Colour	Amber to light brown
Odour	Light odour of petroleum
pH	not available
Flash point (ASTM-D92) [°C]	> 210

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Boiling point (ASTM D1120) [°C]	>300
Melting point [°C]	< -9
Flammability	IV. class
Temperature of spontaneous combustion [°C]	not available
Lower limit of explosion	not available
Superior limit of explosion	not available
Oxidising properties	not available
Vapour pressure [hPa]	not available
Relative density [g.cm⁻³]	0,880
Water solubility [g.l⁻¹]	material insoluble in water
Solubility in solvents [g.l⁻¹]	soluble in benzin, toluen
9.2 Other information	
Viscosity at 40°C [mm².s⁻¹]	29,0 – 74,0
Viscosity at 100°C [mm².s⁻¹]	-

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	Stabile under recommended conditions of use and storage.
10.3 Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight
10.5 Incompatible materials	Strong oxidising agents
10.6 Hazardous decomposition products	Hazardous decomposition products are not expected to form during normal storage

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	<p><u>Acute toxicity</u> Acute oral toxicity - LD50 (rat) > 5000 mg/kg Acute dermal toxicity - LD50 (rabbit) > 5000 mg/kg Acute inhalation toxicity – LC50 (rat) > 5,53 mg/l</p> <p><u>Irritation/Corrosion</u> Not expected to be irritant. No adverse health effects were noted</p> <p><u>Sensitisation</u> Conclusion/Summary : Not available.</p> <p><u>Mutagenicity</u> Conclusion/Summary : Not available.</p> <p><u>Carcinogenicity</u> Conclusion/Summary : Not available.</p> <p><u>Reproductive toxicity</u> Conclusion/Summary : Not available.</p> <p><u>Teratogenicity</u> Conclusion/Summary : Not available.</p> <p><u>Aspiration hazard</u> Not available.</p>
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DYNAMAX TB 32, 46**Other information :**
Not available.**SECTION 12: ECOLOGICAL INFORMATION**

12.1 Toxicity	Poorly soluble mixture. May cause physical fouling of aquatic organisms. Mineral oil is not expected to cause any chronic effects to aquatic organisms at concentrations less than 1 mg/l.
12.2 Persistence and degradability	Expected to be not readily biodegradable. Major constituents are expected to be inherently biodegradable, but the product contains components that may persist in the environment.
12.3 Bioaccumulative potential	Contains components with the potential to bioaccumulate.
12.4 Mobility	Liquid under most environmental conditions. Floats on water. If it enters soil, it will adsorb to soil particles and will not be mobile.
12.5 Results of PBT and vPvB assessment	PBT : Not available. vPvB : Not available.
12. 6 Other adverse effects	Product is a mixture of non-volatile components, which are not expected to be released to air in any significant quantities. Not expected to have ozone depletion potential, photochemical ozone creation potential or global warming potential.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Product Material disposal Recover or recycle if possible. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains or in water courses. 13.2. Packing Container disposal Dispose in accordance with prevailing regulations, preferably to a recognised collector or contractor. The competence of the collector or contractor should be established beforehand. Local legislation Disposal should be in accordance with applicable regional, national, and local laws and regulations. EU Waste Disposal Code (EWC): 13 02 05 mineral-based non-chlorinated engine, gear and lubricating oils Classification of waste is always the responsibility of the end user.

SECTION 14: TRANSPORT INFORMATION

Transport by land RID/ADR	Not regulated
Transport by sea IMDG	Nor regulated
Transport by air	Not regulated
Additional information	Does not pose a hazard during transport and does not require special treatment (handling) procedure.

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU</u>
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Annex XIV - List of substances subject to authorisation

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles: Not applicable.

EU Regulation (EC) No 1272/2008 of the European Parliament and of the Council

Other EU regulations

Europe inventory : All components are listed or exempted
Black List Chemicals : Not listed
Priority List Chemicals : Not listed
Integrated pollution prevention and control list (IPPC) - Air: Not listed
Integrated pollution prevention and control list (IPPC) - Water: Not listed

International regulations

Chemical Weapons Convention List Schedule I Chemicals: Not listed
Chemical Weapons Convention List Schedule II Chemicals: Not listed
Chemical Weapons Convention List Schedule III Chemicals: Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: OTHER INFORMATION

Reason for Revision:

06.11.2017 - Classification of the mixture of the European Parliament and Council Regulation (EC) No. 2015/830

16.1 Text of H-phrases (point 3):

H304 May be fatal if swallowed and enters airways

16.3 Other information:

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. This does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.