

DYNAMAX START SPRAY

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 START SPRAY		
CAS:		EINECS:	
		ELINCS:	



1.2. Identified uses

Uses:	A tool for starting problems with internal combustion engines
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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:	Alekšince 231
	951 22
	Alekšince
	Slovakia
Phone/fax number:	+421 37 7822 326-7
E-mail:	eurovat@eurovat.sk www.eurovat.sk
Emergency phone number:	National Poisons Information Service: City Hospital, Birmingham B187QH, United Kingdom Phone: +44 121 507 4123 E-mai: allistervale@npis.org , sallybradberry@npis.org Website: www.npis.org

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture 2.2 Label elements	<p>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</p> <table style="width: 100%;"> <tr> <td>Flam. Aerosol 1</td><td>H222-H229</td></tr> <tr> <td>STOT SE 3</td><td>H336</td></tr> <tr> <td>Aquatic Chronic 3</td><td>H412</td></tr> </table> <p>Hazard pictograms (CLP/GHS) :</p> <div style="text-align: center;">   </div> <p>Signal word: danger</p> <p>H-phrases: H222-H229 Extremely flammable aerosol. Pressurised container: May burst if Heated H336 May cause drowsiness or dizziness H412 Harmful to aquatic life with long lasting effects EUH019 May form explosive peroxides EUH 066 Repeated exposure may cause skin dryness or cracking</p>	Flam. Aerosol 1	H222-H229	STOT SE 3	H336	Aquatic Chronic 3	H412
Flam. Aerosol 1	H222-H229						
STOT SE 3	H336						
Aquatic Chronic 3	H412						

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<p>2.3 Other hazards</p>	<p>P-phrases: P102 Keep out of reach of children P260 Do not breathe spray P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P251 Pressurized container: Do not pierce or burn, even after use P211 Do not spray on an open flame or other ignition source P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C /122 °F P501 Dispose of contents/container in accordance with local regulations</p> <p>Contains: diethyl ether, isopentane</p> <p>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 a cool place. Protect from direct sunlight. Observe official regulations on storing packagings with pressurized containers. Disposal : Not applicable. Supplemental label elements: Not applicable.</p> <p>Special packaging requirements Containers to be fitted with child-resistant fastenings: Not applicable. 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	
diethyl ether	60-29-7	200-467-2	GHS08	25 - 50	01-2119535785-29-xxxx	Flam. Liq. 1 Acute Tox. 4 STOT SE 3	H224 H302 H336
propane	74-98-6	200-827-9	GHS02	12,5 - 20	01-2119486944-21-xxxx	Flam. Gas 1 Press Gas	H220 H280
isopentane	109-66-0	203-692-4	GHS02	10 – 12,5	01-2119459286-30-xxxx	Flam. Liq. 1 Asp. Tox. 1 Aquatic Chronic 2 STOT SE 3	H224 H304 H411 H336
butane	106-97-8	203-448-7	GHS02	10 – 12,5	01-2119459286-30-xxxx	Flam. Gas 1 Press Gas	H220 H280
isobutane	75-28-5	200-857-2	GHS02	10 – 12,5	01-2119485395-27-xxxx	Flam. Gas 1 Press Gas	H220 H280

DYNAMAX START SPRAY**SECTION 4. FIRST AID MEASURES**

4.1 Description of first aid measures	Eye contact: Rinse immediately with plenty of water. Seek medical attention if irritation develops. Inhalation: Assure fresh air breathing. If you feel unwell, seek medical advice. Skin contact: Wash the skin with water and soap and apply skin-protective cream. Ingestion: Do not induce vomiting. If the injured is conscious give 2 glasses of water. Ensure medical assistance immediately
4.2 Most important symptoms and effects, both acute and delayed	Potential acute health effects Eye contact: Rinse gentle stream of water for at least 15 minutes. If symptoms persist, consult a doctor. Inhalation : Inhalation occurs facial flushing and feeling drunk. Skin contact : Wash off with warm water and soap and apply a suitable cream. Ingestion : After ingestion rinse mouth with water. Give water to drink. Do not induce vomiting. Seek medical advice.
4.3 Indication of any immediate medical attention and special treatment needed	Notes to physician: No specific notes. Specific treatments: No specific treatment.

SECTION 5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media	Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
5.2. Unsuitable extinguishing media	Direct water stream
5.3. Specific hazards	There is no relevant information
5.4. Protective equipment for firefighters	No special measures
Additional advice	-

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	Spills drain device for I.degree fire hazard to vessels, remnants suck suitable absorbent agent. Material according to the degree of pollution in an appropriate incinerator to burn.

SECTION 7. HANDLING AND STORAGE

7.1. Handling	When using do not eat or drink or smoke. Observe safety and sanitary measures.
7.2 . Storage	Store in a cool place. Protect from direct sunlight. Observe official regulations on storing packagings with pressurized containers.

SECTION 8. EXPOSURE CONTROL/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	a) Respiratory protection: not required b) Eye protection: not required c) Protection of hands: protective gloves (EN 374) d) protection: not required

DYNAMAX START SPRAY**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

diethyl ether:
short-term = 616 mg/m³, 200 ppm
average = 308 mg/m³, 100 ppm
isopentane:
average = 3000 mg/m³, 1000 ppm

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state	aerosol
Colour	colorless
Odour	charakteristic
pH	not available
Flash point (ASTM-D92) [°C]	< 0
Boiling point [°C]	not available
Freezing point [°C]	not available
Flammability	not available
Temperature of spontaneous combustion [°C]	200
Lower limit of explosion [vol.%]	1,7
Upper limit of explosion [vol.%]	36,0
Oxidising properties	not available
Vapour pressure at 20°C [hPa]	3 500
Relative density at 20°C [g.cm⁻³]	0,711+/- 0,100
Water solubility [g.l⁻¹]	insoluble
Solubility in solvents [g.l⁻¹]	-
9.2 Other information	
VOC-content [%]	99,5

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	There is no relevant information
10.2 Chemical stability	There is no relevant information
10.3 Possibility of hazardous reactions	There is no relevant information
10.4 Conditions to avoid	There is no relevant information
10.5 Incompatible materials	There is no relevant information
10.6 Hazardous decomposition products	There is no relevant information

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	<u>Acute toxicity</u> <u>Acute oral toxicity:</u> <u>diethyl ether:</u> LD50 (rat) = 855-2352 mg/kg <u>isopentane:</u> LD50 (rat) = 16 000 mg/kg
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DYNAMAX START SPRAY**Acute dermal toxicity:**diethyl ether:

LD50 (rabbit) > 20 000 mg/kg

isopentane:

LD50 (rabbit) = 5 000 mg/kg

Acute inhalation toxicity:diethyl ether:

LC50 (rat) 4 hours = 73 000 mg/m3

isopentane:

LC50 (rat) 4 hours > 100 mg/m3

butane:

LC50 (rat) 4 hours = 658 000 mg/m3

Irritation/Corrosion**Conclusion/Summary :** Irritant to skin and mucous membrane**Sensitisation****Conclusion/Summary :** Not available.**Mutagenicity****Conclusion/Summary :** Not available.**Carcinogenicity****Conclusion/Summary :** Not available.**Reproductive toxicity****Conclusion/Summary :** Not available.**Teratogenicity****Conclusion/Summary :** Not available.**Aspiration hazard**

Not available.

Information on the likely routes of exposure: Not available.**Symptoms related to the physical, chemical and toxicological characteristics****Eye contact :** No specific data.**Inhalation :** No specific data.**Skin contact:** No specific data**Ingestion:** No specific data.**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure****Potential immediate effects:** Not available.**Potential delayed effects :** Not available.**Long term exposure****Potential immediate effects:** Not available.**Potential delayed effects:** Not available.**Potential chronic health effects****Conclusion/Summary :** Not available.**General :** No known significant effects or critical hazards.**Carcinogenicity :** No known significant effects or critical hazards.

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	Mutagenicity : No known significant effects or critical hazards. Teratogenicity : No known significant effects or critical hazards. Developmental effects : No known significant effects or critical hazards. Fertility effects : No known significant effects or critical hazards. Other information : Not available.
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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	<u>diethyl ether:</u> EC50 (Photobacterium phosphoreum) 96 hours > 5600 mg/l EC50 (Daphnia magna) 24 hours = 165 mg/l LC50 (Leuciscus idus) 48 hours = 2840 mg/l <u>isopentane:</u> EC50 (daphnia magna) 48 hours = 9,7 mg/l LC50 (fish) 96 hours = 1 - 10 mg/l
12.2 Persistence and degradability	Not available.
12.3 Bioaccumulative potential	Not available.
12.4 Mobility	Not available.
12.5 Results of PBT and vPvB assessment	PBT : Not available. vPvB : Not available.
12. 6 Other adverse effects	Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground. In the waters also poisonous for fish and plankton. Toxic to aquatic organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Product	Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Hazardous waste : The classification of the product meets the criteria for a hazardous waste.
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Type of waste	Name of waste	Category of waste
20 01 13	solvents	N

DYNAMAX START SPRAY**13.2 Packaging**

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Type of waste	Name of waste	Category of waste
15 01 04	Packaging of metal	N

SECTION 14. TRANSPORT INFORMATION

ADR	UN 1950
Class	2 5F Gases
Hazard identification number	2.1
Packing group	AEROSOLS

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH) + EU Regulation No. 453/2010, which he amended

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:

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DYNAMAX START SPRAY**16.1 Text of H-phrases (point 3):**

H220 Extremely flammable gas
H224 Extremely flammable liquid and vapour
H280 Contains gas under pressure; may explode if heated
H302 Harmful if swallowed
H304 May be fatal if swallowed and enters airways
H336 May cause drowsiness or dizziness
H411 Toxic to aquatic life with long lasting effects

Product packaging must meet the following requirements:

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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.