

**DYNAMAX CETANE BOOSTER****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**

<b>Material Name:</b>	<b>DYNAMAX CETANE BOOSTER</b>		
<b>CAS:</b>		<b>EINECS:</b>	
		<b>ELINCS:</b>	


**1.2. Identified uses**

<b>Uses:</b>	Increases the cetane number of the fuel.
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**1.3. Details of the supplier of the safety data sheet**

<b>Manufacturer/Supplier:</b>	EURO-VAT spol. s r.o.		
<b>IČO:</b>	18049397		
<b>Address:</b>	Aleššince 231		
	951 22		
	Aleššince		
	Slovakia		
<b>Phone/fax number:</b>	+421 37 7822 326-7		
<b>E-mail:</b>	<a href="mailto:eurovat@eurovat.sk">eurovat@eurovat.sk</a> <a href="http://www.eurovat.sk">www.eurovat.sk</a>		
<b>Emergency phone number:</b>	National Poisons Information Service: City Hospital, Birmingham B187QH, United Kingdom Phone: +44 121 507 4123 E-mai: <a href="mailto:allistervale(at)npis.org">allistervale(at)npis.org</a> , <a href="mailto:sallybradberry(at)npis.org">sallybradberry(at)npis.org</a> Website: <a href="http://www.npis.org">www.npis.org</a>		

**SECTION 2: HAZARDS IDENTIFICATION**

<b>2.1. Classification of the substance or mixture</b>	<b>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</b> <b>Hazard categories:</b> Acute Toxicity: Acute Tox. 4 Hazardous to the aquatic environment: Aquatic Chronic 2
<b>2.2 Label elements</b>	<b>Hazard pictograms (CLP/GHS) :</b>  <b>Signal word:</b> warning <b>H-phrases:</b> H302 Harmful if swallowed H312 Harmful in contact with skin H332 Harmful if inhaled H411 Toxic to aquatic life with long lasting effects EUH044 Risk of explosion if heated under confinement EUH066 Repeated exposure may cause skin dryness or cracking.

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### 2.3 Other hazards

#### P-phrases:

P261 Avoid breathing vapours  
P271 Use only outdoors or in a well-ventilated area  
P273 Avoid release to the environment  
P280 Wear protective gloves/protective clothing/eye protection/face protection  
P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell  
P302+P352 IF ON SKIN: Wash with plenty of water  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P501 Dispose of contents/container to a hazardous waste in accordance with relevant legislation

Contains: 2-ethylhexylnitrate

#### 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 original container in a well ventilated area at temperatures up to 40 °C.

**Disposal :** Not applicable.

**Supplemental label elements:** Not applicable.

#### Special packaging requirements

**Containers to be fitted with child-resistant fastenings:** Applicable.

**Tactile warning of danger:** Applicable.

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:**

Not available.

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:**

Not available.

**Other hazards which do not result in classification:** Not available.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Product /ingredient name	CAS	EC	Symbols	Conc.	Registr. no REACH	GHS classification	
2-ethylhexylnitrate	248-363-6	27247-96-7	GHS07,09	80 – 100	-	Acute Tox. 4 Acute Tox. 4 Acute Tox. 4 Aquatic Chronic 2	H302 H312 H332 H411

Full text of H and EUH phrases: see section 16.

### SECTION 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

**Eye contact:** Bathe the eye with running water for 15 minutes. Consult a doctor.  
**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. Consult a doctor.

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin. Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Consult a doctor.

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<b>4.2 Most important symptoms and effects, both acute and delayed</b>	<b>Potential acute health effects</b> <b>Eye contact:</b> There may be irritation and redness. The eyes may water profusely. <b>Inhalation :</b> There may be irritation of the throat with a feeling of tightness in the chest. <b>Skin contact :</b> There may be irritation and redness at the site of contact. <b>Ingestion :</b> There may be soreness and redness of the mouth and throat. Nausea and stomach pain may occur. There may be vomiting.
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	<b>Notes to physician:</b> No specific notes. <b>Specific treatments:</b> No specific treatment.

**SECTION 5. FIRE FIGHTING MEASURES**

<b>5.1 Suitable extinguishing media</b>	Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.
<b>5.2. Unsuitable extinguishing media</b>	No data available.
<b>5.3. Specific hazards</b>	In combustion emits toxic fumes.
<b>5.4. Protective equipment for firefighters</b>	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
<b>Additional advice</b>	Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

<b>6.1. Personal precautions</b>	Refer to section 8 of SDS for personal protection details. If outside do not approach from downwind. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid.
<b>6.2. Environmental precautions</b>	Do not discharge into drains or rivers. Contain the spillage using bunding.
<b>6.3. Clean up methods</b>	Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**SECTION 7. HANDLING AND STORAGE**

<b>7.1. Handling</b>	Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of mists in the air.
<b>7.2 . Storage</b>	Store in cool, well ventilated area. Keep container tightly closed. The floor of the storage room must be impermeable to prevent the escape of liquids.

**SECTION 8. EXPOSURE CONTROL/PERSONAL PROTECTION**

<b>8.1. Control parameters</b>	Ventilation respectively. exhausting work areas. The work may not be readily combustible substances and other dangerous source of fire.
<b>8.2 Exposure controls</b>	Observe the usual precautions for health at work and in good ventilation. When using do not eat, drink or smoke.
<b>8.2.1 Occupational exposure controls</b>	a) Respiratory protection: it is necessary only in case of exceeding the TWA (mask with organic vapor filter type A) b) Eye protection: safety glasses c) Protection of hands: protective gloves (EN 374) d) protection: clothing (impermeable overalls and closed safety boots)

**DYNAMAX CETANE BOOSTER****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**

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

<b>Fysical state</b>	liquid
<b>Colour</b>	colourless
<b>Odour</b>	characteristic
<b>pH</b>	not available
<b>Flash point (ASTM-D92) [°C]</b>	> 76
<b>Boiling point [°C]</b>	not available
<b>Freezing point [°C]</b>	<-50
<b>Flammability</b>	not available
<b>Temperature of spontaneous combustion [°C]</b>	176
<b>Lower limit of explosion</b>	0,25
<b>Superior limit of explosion</b>	not available
<b>Oxidising properties</b>	not available
<b>Vapour pressure [kPa]</b>	not available
<b>Relative density [g.cm<sup>-3</sup>] typ.</b>	0,967
<b>Water solubility [g.l<sup>-1</sup>]</b>	slightly soluble
<b>Solubility in solvents [g.l<sup>-1</sup>]</b>	not available
<b>9.2 Other information</b>	-

**SECTION 10. STABILITY AND REACTIVITY**

<b>10.1 Reactivity</b>	Stable under recommended transport or storage conditions.
<b>10.2 Chemical stability</b>	Stable under normal conditions.
<b>10.3 Possibility of hazardous reactions</b>	Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may occur on exposure to conditions or materials listed below.
<b>10.4 Conditions to avoid</b>	Heat.
<b>10.5 Incompatible materials</b>	Strong oxidising agents. Strong acids.
<b>10.6 Hazardous decomposition products</b>	No known hazardous decomposition products.

**SECTION 11. TOXICOLOGICAL INFORMATION**

<b>11.1 Information on toxicological effects</b>	<p><b><u>Acute toxicity</u></b> <b><u>Acute oral toxicity:</u></b> <u>2-ethylhexylnitrate:</u> LD50 (rat) &gt; 9640 mg/kg</p> <p><b><u>Acute dermal toxicity:</u></b> <u>2-ethylhexylnitrate:</u> LD50 (rabbit) = 4820 mg/kg</p> <p><b><u>Acute inhal toxicity:</u></b> <u>2-ethylhexylnitrate:</u> ATE = 11mg/l LC50 (rat) &gt; 4,6 mg/l</p>
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	<p><b><u>Irritation/Corrosion</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Sensitisation</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Mutagenicity</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Carcinogenicity</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Reproductive toxicity</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Teratogenicity</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Aspiration hazard</u></b> Not available.</p> <p><b>Information on the likely routes of exposure:</b> Not available.</p> <p><b><u>Symptoms related to the physical, chemical and toxicological characteristics</u></b> <b>Eye contact :</b> No specific data. <b>Inhalation :</b> No specific data. <b>Skin contact:</b> No specific data <b>Ingestion:</b> No specific data.</p> <p><b><u>Delayed and immediate effects and also chronic effects from short and long term exposure</u></b></p> <p><b><u>Short term exposure</u></b> <b>Potential immediate effects:</b> Not available. <b>Potential delayed effects :</b> Not available.</p> <p><b><u>Long term exposure</u></b> <b>Potential immediate effects:</b> Not available. <b>Potential delayed effects:</b> Not available.</p> <p><b><u>Potential chronic health effects</u></b> Conclusion/Summary : Not available.</p> <p><b>Other information :</b> Not available.</p>
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**SECTION 12. ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	2-ethylhexylnitrate: LC50 (fish) 96 h. = 2 mg/l LC50 (algae) 72 h. = 1 – 10 mg/l EC50 (Daphnia) 48 h. > 10 mg/l
<b>12.2 Persistence and degradability</b>	Not biodegradable.
<b>12.3 Bioaccumulative</b>	The product has not been tested.

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potential	
12.4 Mobility	Readily absorbed into soil.
12.5 Results of PBT and vPvB assessment	PBT : Not available. vPvB : Not available.
12. 6 Other adverse effects	Toxic to aquatic organisms. Toxic to soil 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.


#### 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 10	Packaging containing residues of hazardous substances or contaminated by dangerous substances	N

### SECTION 14. TRANSPORT INFORMATION

ADR	<b>UN: 3082</b> Classification code: M6 
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (2-ETHYLHEXYLNITRATE)
Transport hazard class	9
Packing group	III
Hazard No.	9

**DYNAMAX CETANE BOOSTER****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), amended by 2015/830/EU****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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**16.1 Text of H-phrases (point 3):**

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H411 Toxic to aquatic life with long lasting effects

**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.