

DYNAMAX OCTANE 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**

Material Name:	DYNAMAX OCTANE BOOSTER		
CAS:		EINECS:	
		ELINCS:	


1.2. Identified uses

Uses:	Additive to increase the octane number of low octane fuels or for use in engines with higher octane requirements
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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(at)npis.org , sallybradberry(at)npis.org Website: www.npis.org

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture	Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Hazard categories: Flammable liquid: Flam. Liq. 3 Acute toxicity: Acute Tox. 4 Skin irritation: Skin Irrit. 2 Carcinogenicity: Carc. 2 Reproductive toxicity: Repr. 1B Aspiration hazard: Asp. Tox. 1 Hazardous to the aquatic environment: Aquatic Chronic 2
2.2 Label elements	Hazard pictograms (CLP/GHS) :  Signal word: danger H-phrases: H226 Flammable liquid and vapour.

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2.3 Other hazards	<p>H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H332 Harmful if inhaled. H315 Causes skin irritation. H351 Suspected of causing cancer. H360 May damage fertility or the unborn child. H411 Toxic to aquatic life with long lasting effects.</p> <p>P-phrases: P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/. P308+P313 IF exposed or concerned: Get medical advice/attention. P331 Do NOT induce vomiting. P403+P235 Store in a well-ventilated place. Keep cool.</p> <p>Contains: xylene solvent naphtha (petroleum), heavy arom. naphthalene dicyclopentadienyl iron</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 original container in a well ventilated area at temperatures up to 40 °C. Disposal : Not applicable. Supplemental label elements: Not applicable.</p> <p>Special packaging requirements Containers to be fitted with child-resistant fastenings: Applicable. Tactile warning of danger: Applicable.</p> <p>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.</p>
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SECTION 3. COMPOSITION/INFORMATION ON IGREDIENTS

Product /ingredient name	CAS	EC	Symbols	Conc.	Registr. no REACH	GHS classification	
xylene	1330-20-7	215-535-7	GHS02,05,07	80 – 100	01-2119488216-32-xxxx	Flam. Liq. 3 Acute Tox. 4 Acute Tox. 2 Skin Irrit. 2	H226 H332 H312 H315
solvent naphtha (petroleum), heavy arom.	64742-94-5	265-198-5	GHS05,0709	1 - 10	01-2119463588-24-xxxx	STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H336 H304 H411
naphthalene	91-20-3	202-049-5	GHS05,0709	1 – 10	01-2119513401-57-xxxx	Carc. 2 Acute Tox. 4	H351 H302

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						Aquatic Acute 1 Aquatic Chronic 1	H400 H410
distillates (petroleum), hydrotreated light, Kerosine - unspecified	64742-47-8	265-149-8	GHS07	1 - 10	01-2119484819- 18-xxxx	Asp. Tox. 1	H304
dicyclopentadienyl iron	102-54-5	203-039-3	GHS02,05 07,09	max. 1	01-2119978280- 34-xxxx	Flam. Liq. 1 Repr. 1B Acute Tox. 4 Acute Tox. 4 STOT RE 2 Aquatic Chronic 1	H228 H360FD H302 H332 H373 H410
1,2,4-trimethylbenzene	95-63-6	202-436-9	GHS02,05 07,09	max. 1	01-2119472135- 42-xxxx	Flam. Liq. 3 Acute Tox. 4 Eye Irrit. 2 STOT SE 3 Skin Irrit. 2 Aquatic Chronic 2	H226 H332 H319 H335 H315 H411
1,3,5-trimethylbenzene, mesitylene	108-67-8	203-604-4	GHS02,07 09	max. 1	01-2119463878- 19-xxxx	Flam. Liq. 3 STOT SE 3 Aquatic Chronic 2	H226 H335 H411

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

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures	<p>Eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.</p> <p>Inhalation: Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.</p> <p>Skin contact: After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. Medical treatment necessary.</p> <p>Ingestion: Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Induce vomiting when the affected person is not unconscious. Medical treatment necessary.</p>
4.2 Most important symptoms and effects, both acute and delayed	<p>Potential acute health effects</p> <p>Eye contact: Symptoms: burning eyes. First aid: Rinse gentle stream of water for at least 15 minutes. If symptoms persist, consult a doctor.</p> <p>Inhalation : Inhalation occurs facial flushing and feeling drunk.</p> <p>Skin contact : Wash off with warm water and soap and apply a suitable cream.</p> <p>Ingestion : After ingestion rinse mouth with water. Give water to drink. Do not induce vomiting. Seek medical advice.</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	Carbon dioxide (CO ₂), Foam, Extinguishing powder. In case of fire, use sand, extinguishing powder or alcohol resistant foam. Carbon dioxide (CO ₂).
5.2. Unsuitable extinguishing media	Water. Full water jet.
5.3. Specific hazards	Flammable. Vapours can form explosive mixtures with air.

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5.4. Protective equipment for firefighters	Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.
Additional advice	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

6.1. Personal precautions	Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.
6.2. Environmental precautions	Do not allow uncontrolled discharge of product into the environment. Danger of explosion
6.3. Clean up methods	Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

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	Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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	<ul style="list-style-type: none"> 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)
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	<u>naphthalene:</u> average: 50 mg/m ³ short: 80 mg/m ³ <u>1,2,4-trimethylbenzene:</u> average: 125 mg/m ³ <u>1,3,5-trimethylbenzene, mesitylene:</u> average: 125 mg/m ³ <u>xylene:</u> average: 220 mg/m ³ short: 441 mg/m ³

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	light yellow
Odour	characteristic

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pH	not available
Flash point (ASTM-D92) [°C]	> 24
Boiling point [°C]	not available
Freezing point [°C]	not available
Flammability	not available
Temperature of spontaneous combustion [°C]	not available
Lower limit of explosion	0,6
Superior limit of explosion	8
Oxidising properties	not available
Vapour pressure [kPa]	not available
Relative density [g.cm⁻³] typ.	0,873
Water solubility [g.l⁻¹]	insoluble
Solubility in solvents [g.l⁻¹]	not available
9.2 Other information	No additional information.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity	Flammable, Ignition hazard.
10.2 Chemical stability	The product is stable under storage at normal ambient temperatures.
10.3 Possibility of hazardous reactions	No known hazardous reactions.
10.4 Conditions to avoid	Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.
10.5 Incompatible materials	No information available.
10.6 Hazardous decomposition products	No known hazardous decomposition products.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	<p><u>Acute toxicity</u></p> <p><u>Acute oral toxicity:</u></p> <p><u>Naphthalene:</u> LD50 (rat) = 0,59 mg/kg</p> <p><u>dicyclopentadienyl iron:</u> ATE = 500 mg/kg</p> <p><u>1,2,4-trimethylbenzene:</u> LD50 (rat) = 5000 mg/kg</p> <p><u>Acute dermal toxicity:</u></p> <p><u>xylene:</u> ATE = 1100 mg/kg</p> <p><u>Naphthalene:</u> LD50 (rat) > 0,49 mg/kg</p> <p><u>Acute inhalation toxicity:</u></p> <p><u>xylene:</u> ATE = 11mg/l</p> <p><u>dicyclopentadienyl iron:</u> ATE = 11 mg/l</p> <p><u>1,2,4-trimethylbenzene:</u></p>
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	<p>LC50 (rat) = 18 mg/l 4 h <u>1,3,5-trimethylbenzene, mesitylene:</u> LC50 (rat) = 24 mg/l 4 h</p> <p><u>Irritation/Corrosion</u> Conclusion/Summary : Causes skin and eye irritation.</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 : May damage fertility. May damage the unborn child. (dicyclopentadienyl iron)</p> <p><u>Teratogenicity</u> Conclusion/Summary : Not available.</p> <p><u>Aspiration hazard</u> May be fatal if swallowed and enters airways.</p> <p>Information on the likely routes of exposure: Not available.</p> <p><u>Symptoms related to the physical, chemical and toxicological characteristics</u> Eye contact : No specific data. Inhalation : No specific data. Skin contact: No specific data Ingestion: No specific data.</p> <p><u>Delayed and immediate effects and also chronic effects from short and long term exposure</u></p> <p><u>Short term exposure</u> Potential immediate effects: Not available. Potential delayed effects : Not available.</p> <p><u>Long term exposure</u> Potential immediate effects: Not available. Potential delayed effects: Not available.</p> <p><u>Potential chronic health effects</u> Conclusion/Summary : Not available.</p> <p>Other information : Not available.</p>
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SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity	<p>Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.</p> <p><u>1,2,4-trimethylbenzene:</u> LC50 (fish) 96 h = 7,72 mg/l</p>
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	EC50 (Daphnia) 48 h = 3,6 mg/l <u>1,3,5-trimethylbenzene, mesitylene:</u> LC50 (fish) 96 h = 12,5 mg/l EC50 (Daphnia) 48 h = 13,0 mg/l
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12.2 Persistence and degradability	The product has not been tested.
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12.3 Bioaccumulative potential	The product has not been tested.		
	Partition coefficient n-octanol/water		
	CAS No	Chemical name	Log Pow
	95-63-6	1,2,4-trimethylbenzene	3,63
	108-67-8	1,3,5-trimethylbenzene, mesitylene	3,42

12.4 Mobility	The product has not been tested.
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12.5 Results of PBT and vPvB assessment	PBT : Not available. vPvB : Not available.
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12. 6 Other adverse effects	Toxic to aquatic organisms. Toxic to soil organisms.
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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	UN: 1993 Classification code: F1
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (XYLENE)

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Transport hazard class	3
Packing group	III
Hazard No.	3

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:**

12.11.2018 - Classification of the mixture of the European Parliament and Council Regulation (EC) No. 2015/830

16.1 Text of H-phrases (point 3):

H226 Flammable liquid and vapour.

H228 Flammable solid.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H360FD May damage fertility. May damage the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.



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H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

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.