

DYNAMAX VALVE & INJECTOR CLEANER**Safety data sheet**

(Regulation 1907/2006/EC)

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

Material Name:	DYNAMAX VALVE & INJECTOR CLEANER		
CAS:		EINECS:	
		ELINCS:	

1.2. Identified uses

Uses:	Cleaner corrosion protection additiv liquid
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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, FNŠP akad. L.Dérera Limbova 5 833 05 Bratislava Tel. +421 2 5477 4166 ntic@ntic.sk www.ntic.sk		

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 Aspiration hazard: Asp. Tox. 1 Serious damage to eyes: Eye Dam. 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. H304 May be fatal if swallowed and enters airways. H318 Causes serious eye damage. H411 Toxic to aquatic life with long lasting effects.

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2.3 Other hazards

P-phrases:

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P310 Immediately call a POISON CENTER/doctor/.
P331 Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains: naphtha (petroleum), hydrodesulfurized heavy
2-methylpropan-1-ol

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.

3. COMPOSITION/INFORMATION ON IGREDIENTS

Product /ingredient name	CAS	EC	Symbols	Conc.	Registr. no REACH	GHS classification	
naphtha (petroleum), hydrodesulfurized heavy	64742-82-1	265-185-4	GHS02,07 09	70 - 90	-	Flam. Liq. 3 Asp. Tox. 1 Aquatic Chronic 2	H226 H304 H411
isobutanol =(2-methylpropan-1-ol)	78-83-1	201-148-0	GHS02,05 07	1 - 10	-	Flam. Liq. 3 Acute Tox.4 STOT SE 3 Skin Irrit. 2 Eye Dam. 1 STOT SE 3	H226 H302 H335 H315 H318 H336
solvent naphtha (petroleum), heavy arom.	64742-94-5	265-198-5	GHS05,07 09	1 - 10	01-2119463588- 24-xxxx	STOT SE 3 Asp. Tox. 1 Aquatic Chronic 2	H336 H304 H411
1,2,4-trimethylbenzene	95-63-6	202-436-9	GHS02,05 07,09	max. 1	-	Flam. Liq. 3 Acute Tox. 4 Eye Irrit. 2 STOT SE 3	H226 H332 H319 H335

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						Skin Irrit. 2 Aquatic Chronic 2	H315 H411
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Full text of H and EUH phrases: see section 16.

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. Move to fresh air in case of accidental inhalation of vapours. If unconscious, check for breathing and apply artificial respiration if necessary. Consult a doctor. Skin contact: Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Consult a doctor. Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. If unconscious and breathing is OK, place in the recovery position. Consult a doctor.
4.2 Most important symptoms and effects, both acute and delayed	Potential acute health effects Eye contact: There may be irritation and redness. Inhalation : There may be vomiting. Skin contact : There may be mild irritation at the site of contact. Ingestion : There may be vomiting and diarrhoea.
4.3 Indication of any immediate medical attention and special treatment needed	Notes to physician: No specific notes. Specific treatments: No specific treatment.

5. FIRE FIGHTING MEASURES

5.1 Suitable extinguishing media	Water fog. Alcohol or polymer foam. Dry chemical powder. Carbon dioxide.
5.2. Unsuitable extinguishing media	No data available.
5.3. Specific hazards	Explosive. Forms explosive air-vapour mixture. Vapour may travel considerable distance to source of ignition and flash back.
5.4. Protective equipment for firefighters	Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.
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.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions	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.
6.2. Environmental precautions	Do not discharge into drains or rivers. Contain the spillage using bunding.
6.3. Clean up methods	Mix with sand or vermiculite.

7. HANDLING AND STORAGE

7.1. Handling	Ensure there is sufficient ventilation of the area. Avoid the formation or spread of mists in the air. Earth any equipment used in handling. Use non-sparking tools.
7.2 . Storage	Store in cool, well ventilated area. Keep away from sources of ignition. Keep container tightly closed. Prevent the build up of electrostatic charge in the

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immediate area. Ensure a retention tank is installed. Ensure storage room has retention walls. The floor of the storage room must be impermeable to prevent the escape of liquids.

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: 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>isobutanol:</u> average: 154 mg/m ³ short: 231 mg/m ³ <u>1,2,4-trimethylbenzene:</u> average: 125 mg/m ³

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

Physical state	liquid
Colour	pale yellow
Odour	organic solvents
pH	not available
Flash point (ASTM-D92) [°C]	32
Boiling point [°C]	130 - 220
Freezing point [°C]	not available
Flammability	not available
Temperature of spontaneous combustion [°C]	200
Lower limit of explosion	0,6
Superior limit of explosion	7
Oxidising properties	not available
Vapour pressure [hPa]	not available
Relative density [g.cm⁻³] max.	0,800
Water solubility [g.l⁻¹]	slightly soluble
Solubility in solvents [g.l⁻¹]	most organic solvents
9.2 Other information	
VOC [g.l⁻¹]	800

10. STABILITY AND REACTIVITY

10.1 Reactivity	Stable under recommended transport or storage conditions.
10.2 Chemical stability	Stable under normal conditions.
10.3 Possibility of hazardous reactions	Hazardous reactions will not occur under normal transport or storage conditions.

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10.4 Conditions to avoid	Heat. Sources of ignition.
10.5 Incompatible materials	Strong oxidising agents. Strong reducing agents.
10.6 Hazardous decomposition products	In combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion emits toxic fumes of nitrogen oxides.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	<u>Acute toxicity</u> <u>Acute oral toxicity:</u> <u>isobutanol:</u> LD50 (rat) = 2460 mg/kg <u>1,2,4-trimethylbenzene:</u> LD50 (rat) = 5000 mg/kg <u>Acute dermal toxicity:</u> <u>isobutanol:</u> LD50 (rat) = 340 mg/kg <u>Acute inhalation toxicity:</u> <u>1,2,4-trimethylbenzene:</u> LC50 (rat) = 18 mg/l 4 h <u>Irritation/Corrosion</u> Conclusion/Summary : Causes eye irritation. <u>Sensitisation</u> Conclusion/Summary : Not available. <u>Mutagenicity</u> Conclusion/Summary : Not available. <u>Carcinogenicity</u> Conclusion/Summary : Not available. <u>Reproductive toxicity</u> Conclusion/Summary : Not available. <u>Teratogenicity</u> Conclusion/Summary : Not available. <u>Aspiration hazard</u> Not available. Information on the likely routes of exposure: Not available. <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. <u>Delayed and immediate effects and also chronic effects from short and long term exposure</u> <u>Short term exposure</u> Potential immediate effects: Not available.
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	Potential delayed effects : Not available. <u>Long term exposure</u> Potential immediate effects: Not available. Potential delayed effects: Not available. <u>Potential chronic health effects</u> Conclusion/Summary : Not available. Other information : Not available.
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12. ECOLOGICAL INFORMATION

12.1 Toxicity	Not available.
12.2 Persistence and degradability	Biodegradable.
12.3 Bioaccumulative potential	The product has not been tested.
12.4 Mobility	Volatile. Floats on water. Heavier than air.
12.5 Results of PBT and vPvB assessment	PBT : Not available. vPvB : Not available.
12. 6 Other adverse effects	Harmful to aquatic organisms.

13. DISPOSAL CONSIDERATIONS**13.1 Product**

Methods of disposal: Transfer to a suitable container and arrange for collection by specialised disposal company. Physico-chemical treatment not specified elsewhere in this Annex which results in final compounds or mixtures which are discarded by means of any of the other possible disposal operations (e.g. evaporation, drying, calcination, etc.).

Recovery operations: Use principally as a fuel or other means to generate energy. Solvent reclamation/regeneration.

Waste code number: 07 07 04

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

DYNAMAX VALVE & INJECTOR CLEANER**14. TRANSPORT INFORMATION**

ADR	UN: 1993 Classification code: F1
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (Isobutanol)
Transport hazard class	3
Packing group	III

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.

16. OTHER INFORMATION**Reason for Revision:**

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16.1 Text of H-phrases (point 3):

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

DYNAMAX VALVE & INJECTOR CLEANER**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.