

**DYNAMAX DE ICER****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 DE ICER</b>		
<b>CAS:</b>		<b>EINECS:</b>	
		<b>ELINCS:</b>	


**1.2. Identified uses**

<b>Uses:</b>	glass (windshield) defroster
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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>	Alekšince 231		
	951 22		
	Alekšince (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>	Národné toxikologické informačné centrum (NTIC) Klinika pracovného lekárstva a toxikológie, FNsP akad. L.Dérera Limbova 5 833 05 Bratislava Tel. +421 2 5477 4166 <a href="mailto:ntic@ntic.sk">ntic@ntic.sk</a> <a href="http://www.ntic.sk">www.ntic.sk</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> Flam. Liq. 2 H225 Eye Irrit. 2 H319
<b>2.2 Label elements</b>	<b>Hazard pictograms (CLP/GHS) :</b>  <b>Signal word:</b> danger <b>H-phrases:</b> H225 Highly flammable liquid and vapour H319 Causes serious eye irritation <b>P-phrases:</b> P102 Keep out of reach of children P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking P233 Keep container tightly closed P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P337+P313 If eye irritation persists: Get medical advice/attention P403+P235 Store in a well-ventilated place. Keep cool

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2.3 Other hazards	<p>P501 Dispose of contents/container to a hazardous waste in accordance with relevant legislation</p> <p>Contains: ethanol &lt; 5% anionic surfactants butylphenyl methylpropional (=fragrance)</p> <p><b>Precautionary statements</b></p> <p><b>Prevention :</b> Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.</p> <p><b>Response :</b> Get medical attention if you feel unwell. IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell.</p> <p><b>Storage :</b> Store in original container in a well ventilated area at temperatures up to 40 °C. Protect the product from static electricity.</p> <p><b>Disposal :</b> Not applicable.</p> <p><b>Supplemental label elements:</b> Not applicable.</p> <p><b>Special packaging requirements</b></p> <p><b>Containers to be fitted with child-resistant fastenings:</b> Applicable.</p> <p><b>Tactile warning of danger:</b> Applicable.</p> <p><b>Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:</b> Not available.</p> <p><b>Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:</b> Not available.</p> <p><b>Other hazards which do not result in classification:</b> 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	
Ethanol	64-17-5	200-578-6	 	min. 60	01-2119457610-43-0019	Flam.Liq.2 Eye Irrit. 2	H225 H319
Ethan-1,2-diol	107-21-1	203-473-3	 	max. 2	01-2119456816-28-0004	Acute tox. 4 STOT RE 2	H302 H373
Dodecylbenzensulfonat Na	25155-30-0	285-600-2	 	max. 0,1	-	Skin Irrit. 2 Eye Dam. 1	H315 H318
Buthylphenylmethyl propional	80-54-6	201-289-8		max. 0,01	-	Acute Tox. 4 (*) Skin Sens.1	H302 H317

### SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	<p><b>Eye contact:</b> Rinse immediately with plenty of water. Seek medical attention if irritation develops.</p> <p><b>Inhalation:</b> Assure fresh air breathing. If you feel unwell, seek medical advice.</p> <p><b>Skin contact:</b> Wash the skin with water and soap and apply skin-protective cream.</p> <p><b>Ingestion:</b> 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><b>Potential acute health effects</b></p> <p><b>Eye contact:</b> Symptoms: burning eyes. First aid: Rinse gentle stream of water for at least 15 minutes. If symptoms persist, consult a doctor.</p> <p><b>Inhalation :</b> Inhalation occurs facial flushing and feeling drunk.</p>

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	<p><b>Skin contact :</b> Wash off with warm water and soap and apply a suitable cream.</p> <p><b>Ingestion :</b> After ingestion rinse mouth with water. Give water to drink. Do not induce vomiting. Seek medical advice.</p>
<b>4.3 Indication of any immediate medical attention and special treatment needed</b>	<p><b>Notes to physician:</b> No specific notes.</p> <p><b>Specific treatments:</b> No specific treatment.</p>

## SECTION 5: FIRE FIGHTING MEASURES

<b>5.1 Suitable extinguishing media</b>	Foam, powder, carbon dioxide, water spray.
<b>5.2. Unsuitable extinguishing media</b>	A direct stream of water, fire-extinguishing foam not so resistant to alcohol.
<b>5.3. Specific hazards</b>	Formed during combustion gases containing oxides of carbon and nitrogen. Endangered containers and storage space cooling water screen and possibly removed from the danger zone.
<b>5.4. Protective equipment for firefighters</b>	Protective clothing against radiant heat and insulating breathing apparatus.
<b>Additional advice</b>	-

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1. Personal precautions</b>	Ensure adequate ventilation. Avoid contact with skin and eyes. No smoking.
<b>6.2. Environmental precautions</b>	Do not allow to surface and groundwater. With its breakthrough contact person.
<b>6.3. Clean up methods</b>	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

<b>7.1. Handling</b>	When using do not eat or drink or smoke. Observe safety and sanitary measures.
<b>7.2 . Storage</b>	Store in original container in a well ventilated area at temperatures up to 40 ° C. Protect the product from static electricity.

## SECTION 8: EXPOSURE CONTROLS/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: goggles c) Protection of hands: protective gloves (EN 374) d) protection: clothing
<b>8.2.2. Environmental exposure controls</b>	To prevent leakage of concentrated mixture into surface water drains or soil. Mixture stored in tightly sealed and labeled containers.
<b>8.3. TWA</b>	ethanol (CAS 64-17-5)                      average: 960mg/m <sup>3</sup> short: 1920mg/m <sup>3</sup>  ethan-1,2-diol (CAS 107-21-1)          average: 52 mg/m <sup>3</sup> short: 104 mg/m <sup>3</sup>

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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>	blue
<b>Odour</b>	lemon
<b>pH</b>	6 - 9
<b>Flash point (ASTM-D92) [°C]</b>	<21± 1
<b>Boiling point ( ASTM D1120) [°C]</b>	78,8
<b>Flammability</b>	flammable liquid I.class
<b>Temperature of spontaneous combustion [°C]</b>	not available
<b>Lower limit of explosion</b>	not available
<b>Superior limit of explosion</b>	not available
<b>Oxidising properties</b>	not available
<b>Vapour pressure [hPa]</b>	not available
<b>Relative density [g.cm<sup>-3</sup>] typ.</b>	0,875
<b>Water solubility [g.l<sup>-1</sup>]</b>	very good mixable
<b>Solubility in solvents [g.l<sup>-1</sup>]</b>	soluble in alcohols, acetone
<b>9.2 Other information</b>	No additional information.

### SECTION 10: STABILITY AND REACTIVITY

<b>10.1 Reactivity</b>	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	Stabile under recommended conditions of use and storage.
<b>10.3 Possibility of hazardous reactions</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	Temperature below 0 °C. Avoid storing in direct sunlight. When observing the correct storage temperature and storage conditions, there is no degradation.
<b>10.5 Incompatible materials</b>	oxidizing agents, anhydrides, peroxides, acids, acid chlorides, alkali metals
<b>10.6 Hazardous decomposition products</b>	In case of fire carbon monoxide

### SECTION 11: TOXICOLOGICAL INFORMATION

<b>11.1 Information on toxicological effects</b>	<p><b><u>Acute toxicity</u></b> Ethanol: LD<sub>50</sub> oral (rat) 7060 mg.kg<sup>-1</sup> LD<sub>50</sub> oral (mouse) 8300 mg.kg<sup>-1</sup> LC<sub>50</sub> inhalation (mouse) 20 000 ppm/ 10 h LDL<sub>0</sub> dermal (rabbit) 20 000 mg/kg</p> <p><b><u>Irritation/Corrosion</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Sensitisation</u></b> Conclusion/Summary : in contact with skin</p> <p><b><u>Mutagenicity</u></b> Conclusion/Summary : Not available.</p> <p><b><u>Carcinogenicity</u></b> Conclusion/Summary : Not available.</p>
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	<p><b><u>Reproductive toxicity</u></b> <b>Conclusion/Summary :</b> Not available.</p> <p><b><u>Teratogenicity</u></b> <b>Conclusion/Summary :</b> Not available.</p> <p><b><u>Aspiration hazard</u></b> Not available. <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> <b>Conclusion/Summary :</b> Not available.</p> <p><b>General :</b> No known significant effects or critical hazards. <b>Carcinogenicity :</b> No known significant effects or critical hazards. <b>Mutagenicity :</b> No known significant effects or critical hazards. <b>Teratogenicity :</b> No known significant effects or critical hazards. <b>Developmental effects :</b> No known significant effects or critical hazards. <b>Fertility effects :</b> No known significant effects or critical hazards.</p> <p><b>Other information :</b> Not available.</p>
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**SECTION 12: ECOLOGICAL INFORMATION**

<b>12.1 Toxicity</b>	<b>Conclusion/Summary :</b> Not available.
<b>12.2 Persistence and degradability</b>	Degradability of tenzides: > 90 % (producer declare performance of requirements of Regulation No. 648/2004)
<b>12.3 Bioaccumulative potential</b>	Not available.
<b>12.4 Mobility</b>	Not available.
<b>12.5 Results of PBT and vPvB assessment</b>	<b>PBT :</b> Not available. <b>vPvB :</b> Not available.
<b>12. 6 Other adverse effects</b>	No known significant effects or critical hazards.

**DYNAMAX DE ICER****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.

Type of waste	Name of waste	Category of waste
16 01 14	antifreeze fluids containing dangerous substances	N

**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 1170 F1
UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
Class	3
Hazard Identification	33
Packing group	II
Label	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

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**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:

06.09.2017 - Classification of the mixture of the European Parliament and Council Regulation (EC) No. 2015/830 + modification of the classification of the mixture in point 2 on the basis of the change of component classification (ethanol) in point 3

### 16.1 Text of H-phrases (point 3):

H225	Highly flammable liquid and vapour
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H373	May cause damage to organs through prolonged or repeated exposure

### 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.