



MATERIAL SAFETY DATA SHEET  
**EPITHIOCHLORHYDRINE**



Revision: 10/02/2011

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**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

<b>Company Identification:</b>	<b>Georganics Ltd.</b> Koreničova 1 811 03 Bratislava Slovak Republic	Phone Number: +421 33 6403132 Fax Number: +421 33 6403133 E-mail address: georganics@georganics.sk
<b>Emergency Number, Slovakia:</b>	National Toxicological Information Centre Tel: 00421-2-54774166 Mobil: +421 911 166 066	

**SECTION 2 - HAZARDS IDENTIFICATION**

<b>Hazard Symbol:</b> 	<b>Risk Phrases:</b> R 23/24/25 - Toxic by inhalation, in contact with skin and if swallowed. R 34 - Causes burns. R 43 - May cause sensitization by skin contact.
<b>T - Toxic</b>	
<b>GHS pictogram:</b> 	H301 - Toxic if swallowed H311 - Toxic in contact with skin H314 - Causes severe skin burns and eye damage P280 - Wear eye protection/face protection P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P301 + P330 + P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting P302 + P350 - IF ON SKIN: Gently wash with plenty of soap and water P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell
<b>Signal word:</b> <b>Danger</b>	H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H331 - Toxic if inhaled

**SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS**

CAS#	Chemical Name	Assay (%)	EINECS#
3221-15-6	Epithiochlorhydrine	min. 97	-

**SECTION 4 - FIRST AID MEASURES**

<b>Eyes:</b>	Rinse opened eye for at least 15 minutes under running water. Get medical aid.
<b>Skin:</b>	Instantly wash with water and soap and rinse thoroughly. Get medical aid.
<b>Ingestion:</b>	Get medical aid. Wash mouth out with water.
<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. If required, provide artificial respiration.

**SECTION 5 - FIRE FIGHTING MEASURES**

<b>Suitable extinguishing agents:</b>	Use dry chemical, carbon dioxide or appropriate foam.
<b>Protective equipment:</b>	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
<b>Unusual fire and explosions hazards:</b>	During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Person-related safety precautions:</b>	Wear protective equipment as indicated in section 8. Ensure adequate ventilation. Avoid dust formation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Wash spill site after material pickup is complete.
<b>Environmental precautions</b>	Should not be released into the environment.
<b>Additional information:</b>	See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

**SECTION 7 - HANDLING AND STORAGE**

<b>Handling:</b>	Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Avoid dust formation.
<b>Storage:</b>	Store in a dry, cool and well ventilated place. Keep container closed when not in use. See Section 10 for stability and reactivity information.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

<b>Engineering Controls:</b>	Use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels. Safety shower and eye bath.
<b>Personal Protective Equipment</b>	
<b>Eyes:</b>	Wear chemical safety glasses.
<b>Skin:</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Clothing:</b>	Wear appropriate protective work clothing.
<b>Respirators:</b>	Use breathing protection with high concentrations.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b>	Liquid	<b>Flash Point:</b>	25 °C
<b>Color:</b>	Clear colourless / light yellow	<b>Solubility:</b>	methanol, chloroform, diethylether
<b>Odor:</b>	Stench	<b>Molecular Formula:</b>	C <sub>3</sub> H <sub>5</sub> Cl S
<b>Freezing/Melting Point:</b>	69 - 70 °C	<b>Molecular Weight:</b>	108,59

**SECTION 10 - STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	Air sensitive. Stable under normal temperatures and pressures.
<b>Incompatible Materials:</b>	Strong oxidants.
<b>Conditions to avoid:</b>	Incompatible products, excess heat, dust formation.
<b>Hazardous Decomposition Products:</b>	Carbon dioxide, carbon monoxide, Hydrogen chloride gas, oxides of sulfur

**SECTION 11 - TOXICOLOGICAL INFORMATION**

<b>RTECS#:</b>	CAS# 3221-15-6: TX4725000
<b>LD50/LC50:</b>	CAS# 3221-15-6: Inhalation, rat: LC50 =305 ppm/6H; Oral, rat: LD50 = 40 mg/kg.
<b>Carcinogenicity:</b>	There are no known carcinogenic chemicals in this product. No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.
<b>Potential Health Effects</b>	Toxic if swallowed. Causes eye burns. Inhalation may cause respiratory irritation.
<b>Other:</b>	The toxicological properties have not been fully investigated.

**SECTION 12 - ECOLOGICAL INFORMATION**

Do not let product enter drains.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

Dispose of in a manner consistent with federal, state, and local regulations.

**SECTION 14 - TRANSPORT INFORMATION**

	<b>IATA</b>	<b>IMDG/IMO</b>	<b>RID/ADR</b>
<b>Shipping Name:</b>	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.	TOXIC LIQUID, ORGANIC, N.O.S.
<b>Hazard Class:</b>	6.1	6.1	6.1
<b>UN Number:</b>	2810	2810	2810
<b>Packing Group:</b>	II	II	II

**SECTION 15 - REGULATORY INFORMATION****European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: T - Toxic

Risk Phrases: R 23/24/25 - Toxic by inhalation, in contact with skin and if swallowed.  
R 34 - Causes burns.  
R 43 - May cause sensitization by skin contact.

Safety Phrases: S 36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.  
S 38 - In case of insufficient ventilation, wear suitable respiratory equipment.  
S 45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Canadian DSL/NDSL CAS# 3221-15-6 is not listed on Canada's DSL or NDSL List.

US Federal TSCA CAS# 3221-15-6 is not listed on the TSCA Inventory.

**SECTION 16 - OTHER INFORMATION****WARRANTY**

*The information contained in the MSDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. MSDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.*