

SALES NAME / SUBSTANCE NAME: SL Novolac Hardener Slow B

Applied REACH EU 2015/830 regulations



# SNAKELINER

X SDS

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Trade name – Substance name

SL Novolac Hardener Slow (B)

CAS NO

-

REACH NO

-

### 1.2 RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST RELEVANT IDENTIFIED USES

IDENTIFIED USES

***EPOXI-system / Hardener component two component product***

This SDS is only valid for component B (Hardener) SL Novolac Hardener Slow

### 1.3 SDS SUPPLIER DETAILS

**Supplier (producer, importer, only representative, user, distributor)  
Supplier for Finnish market (\*)**

Snakeliner Oy

Address

Kisällintie 1

Postnumber and city

06150 PORVOO

Phone

+35820 7300 530

email

info@snakeliner.com

### 1.4 EMERGENCY NUMBER

**Finland +358 9 471 977****– Only available at office hours 08.00-16.00****– Local market emergency toxic - chemical help number**

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture:

Skin Corr. 1B H314

Acute Tox. 4 H302

Acute Tox. 4 H312

Skin Sens. 1 H317

Aquatic Chronic 3 H412

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**2.2 LABELLING**

GHS07



GHS05

**2.3 OTHER HAZARDS**

- No other hazards

**SECTION 3: COMPOSITION/INFORMATION OF INGREDIENTS****3.1 SUBSTANCES**

Main substance / substancepart name	CAS-, EY- or index number	Purity
Isoforondiamin	CAS 2855-13-2	60-90%
Bentsylalcohol	CAS 100-51-6	10-20%
Trietyltetramine	CAS 112-24-3	

**3.2 MIXTURES**

Substance name	CAS-, EY- or indexnumber	REACH-register	Purity	Classification

**KOHTA 4: FIRST AID MEASURES****4.1 Description of first aid measures**

General notes:	If you feel nauseous, seek medical attention (always show a safety data sheet to your doctor).
Following inhalation:	Move the injured person out of the contaminated area to fresh air. Contact a local POISON CENTER or doctor if you experience nausea. In case of breathing difficulties, move the person into fresh air and keep in a resting position where it is easy to breathe.
Following skin contact:	Remove contaminated clothing and wash affected area with mild soap and water. Then rinse with warm water. Moisten the skin with lotion. If skin irritation or rash occurs: Seek medical attention.
Following eye contact:	Remove any contact lenses if possible. Rinse immediately with plenty of water while keeping eyelids wide apart. (Tempered flushing liquid 20-30C.) If symptoms persist consult doctor.
Following ingestion:	Rinse mouth repeatedly and drink plenty of water. Do NOT induce vomiting. Seek immediate medical attention.

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<b>4.2</b>	<b>Most important symptoms and effects, both acute and delayed</b>	
	Symptoms / effects	Harmful to the tissues and mucous membranes and upper respiratory tract, eyes and skin. Itching, redness, millimeter blisters usually in the hands and forearms.
	Symptoms / effects if inhaled:	Cough, shortness of breath, headache, nausea.
	Symptoms / effects as a result of skin contact:	May cause sensitization by skin contact.
	Symptoms / effects in eye contact	May cause slight irritation.
	Symptoms / effects when swallowed	Nothing in normal use.
	Chronic symptoms:	Skin irritation, dermatitis and sensitization.
<b>4.3</b>	<b>Indication of any immediate medical attention and special treatment needed</b>	
	LOOK SECTION 4.1	

## SECTION 5: FIREFIGHTING MEASURES

<b>5.1</b>	<b>Extinguishing media</b>	
	Suitable extinguishing media:	CO2 (carbon dioxide), extinguishing media; foam or dispersed water spray
<b>5.2</b>	<b>Special hazards arising from the substance or mixture</b>	
	Fire hazard:	Not flammable, Burning gases are released when heated
	Explosive hazard:	Nothing in normal use
<b>5.3</b>	<b>Advice for firefighters</b>	
	Unsuitable extinguishing media:	Do not use high force water spray
	Hazardous combustion products:	carbon monoxide, carbon dioxide, hydrocarbons

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>6.1</b>	<b>Personal precautions, protective equipment and emergency procedures</b>	
	Evacuate and limit the emission range. Use protective equipment, disposable overalls, protective gloves, goggles Ensure adequate ventilation.	
<b>6.2</b>	<b>Environmental precautions</b>	
	Contaminated extinguishing water must be collected separately, it must not be allowed into the sewage system. Avoid release to the environment. Inform authorities if fluid is drained into drains or watercourses	
<b>6.3</b>	<b>Methods and material for containment and cleaning up</b>	
	Floods to be collected. Collect the product mechanically. This material and its packaging must be disposed of safely and in accordance with local legislation. Absorbents should be used to prevent splashing and dispose of properly.	
<b>6.4</b>	<b>Reference to other sections</b>	
	For more information, see section 13. For more information, see section 8 "Exposure Controls and Personal Protection". Contact the authorities in case of discharges, see section 1.4	

## SECTION 7: HANDLING AND STORAGE

<b>7.1</b>	<b>Precautions for safe handling</b>	
	Recommendations shall be specified to:	: Ensure good ventilation at the workstation. If necessary, extract point ventilation.
	Advice on general occupational hygiene shall be provided, such as:	: Eating, drinking and smoking when using a banned chemical. Separate the work clothes from the garments and wash them apart. No contaminated working clothes should be taken out of the workplace. Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking and leaving the workplace.
<b>7.2</b>	<b>Conditions for safe storage, including any incompatibilities</b>	
	Warehousing	: Warehousing time 24 months , Storage in closed containers
	Warehousing temperature	: + 10-20 °C
	Conditions of storage	: Store in location, with good air ventilation.

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Packaging materials : Storing in stamped container

<b>7.3</b>	<b>Specific end use</b>
	Not applied

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

<b>8.1</b>	<b>Control parameters</b>
	<p><b>HTP-values</b> Not valid</p> <p><b>Other values</b> Not valid</p> <p><b>DNEL-values</b> Not valid</p> <p><b>PNEC-values</b> Not valid</p>

<b>8.2</b>	<b>Exposure control</b>
	<p><b>Appropriate engineering controls</b> Personal protection, air ventilation</p> <p><b>Eye and face protection</b> Full mask goggles</p> <p><b>Skin protection</b> Single use overalprotection, work clothe protection with skirt or chemical overalls, chemical gloves and pregloves.</p> <p><b>Hand protection</b> Protective gloves (Nitrilrubber / Butylrubber)</p> <p><b>Respiratory protection</b> If ventilation not addequate, use respiratory mask (Carbon filter)</p> <p><b>Thermal hazards</b> Non</p> <p><b>Enviromental exposure controls</b> Handle with caution, protect the environment from exposure by adequate action. Environmental protection; surface protection, ventilation, restriction of movement, prohibition marks.</p>

**KOHTA 9: Physical and chemical properties**

<b>9.1. Information on basic physical and chemical properties</b>	
<b>Appearance</b>	Liquid
<b>Odour</b>	Mild
<b>Odour treshold</b>	Low
<b>pH</b>	30 gr/l vid +20°C ca 11
<b>Melting point / Freezing point</b>	-
<b>Initial boiling point and boiling range</b>	>200 °C

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Flash point	> 100°C
Evaporation rate	Dust explosion possible
Flammability (solids, gases)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	<0,28 + 20 ° C
Vapour density	-
Relative density	1,04 + 20 ° C
Solubility(ies)	Slightly soluble
Partition coefficient: n-octanol/water	-
Auto-ignition temperature	> 350C
Decomposition temperature	> 250C
Viscosity	-
Explosive properties	Lower 1,3 vol % Higher 13vol. %
Oxidising properties	-

**9.2 Other information**

No other information

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Stable under normal conditions. Avoid contact with strong acids, strong bases and oxidants. High temperature for a long time disperses the product.

**10.2 Chemical stability**

No dispersion if stored and handled properly.

**10.3 Possibility of hazardous reactions**

Strong reaction with acids

**10.4 Conditions to avoid**

Not specific details

**10.5 Incompatible materials**

Strong acids, strong bases and oxidizers

**10.6 Hazardous decomposition products**

Under normal conditions there are no hazardous decomposition products during storage and use. Hazardous polymerization does not occur in itself, but more than 0.5 kg of product plus polyamine (component B) when potlife is exceeded initiates irreversible polymerization during which it causes significant hot and irritant gases.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****Acute toxicity**

Klassificeringsrelevanta LD/LC50 -värden: 2855-13-2 3-aminometyl-3,5,5-trimetylcyklohexylamino

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Oral LD50 1030 mg/kg (RAT)  
 Dermal LD50 1840 mg/kg (RABBIT)  
**Skin corrosion / irritation**  
 Irritating to skin and mucous membranes  
**Serious ey damage/irritation**  
 Irritates the eye  
**Respiratory or skin sensitisation**  
 Causes skin sensitisation  
**Germ cell mutagenity**  
 No known effect  
**carcinogenicity**  
 No known effect  
**Reproductive toxicity**  
 No Known effect  
**STOT- single exposure**  
 Not available  
**STOT-repeated exposure**  
 Not available  
**Aspiration hazard**  
 Not availble  
**Other information**  
 Not available

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

Ecotoxicological data are not available on the product as such.  
 For the main risk determining component ISOFORONDIAMIN, the following applies:  
 Aquatic toxicity:  
**2855-13-2 3-aminometyl-3,5,5-trimetylcyklohexylamino**  
 EC50/24h 44mg/l (daphnia)  
 EC50/72h 37mg/l (algae))

### 12.2 Persistence and degradability

The product is not readily biodegradable.

### 12.3 Bioaccumulative Potential

Low risk of bioaccumulation; log P (o / w): <1

### 12.4 Mobility in soil

Small potential for absorption to sewage sludge and soil.

### 12.5 Result of PBT- ja vPvB- assesment

Not relevant

### 12.6 Other adverse effects

Large emissions have a negative impact locally due to high pH value. A high pH damages aquatic organisms.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

The composition of the Waste Directive (SFS 2011: 927) is hazardous waste. Emissions into the environment should be prevented.  
 Ask your local authorities for waste disposal.

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<b>SECTION 14: TRANSPORT INFORMATION</b>									
<b>14.1</b>	<b>UN-NUMBER</b> UN2289								
<b>14.2</b>	<b>UN PROPER SHIPPING NAME</b> ISOPHORONEDIAMINE								
<b>14.3</b>	<b>TRANSPORT HAZARD CLASS</b> 8								
<b>14.4</b>	<b>PACKING GROUP, ADR –RID , IMDG , IATA</b> III								
<b>14.5</b>	<b>ENVIRONMENTAL HAZARDS</b> -								
<b>14.6</b>	<b>SPECIAL PRECAUTIONS FOR USER</b> Warning, Corrosive								
<b>14.7</b>	<b>ADR &amp; Transportation in bulk according to Annex II to MARPOL 73/78 and the IBC Code</b> <table border="0"> <tr> <td>Limited quantity (LQ)</td> <td>5 L</td> </tr> <tr> <td>Transport category</td> <td>3</td> </tr> <tr> <td>Tunnel restriction code</td> <td>E</td> </tr> <tr> <td colspan="2"><b>UN "Model Regulation" UN2289, ISOPHORONEDIAMINE, 8 , III</b></td> </tr> </table>	Limited quantity (LQ)	5 L	Transport category	3	Tunnel restriction code	E	<b>UN "Model Regulation" UN2289, ISOPHORONEDIAMINE, 8 , III</b>	
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<b>SECTION 15: REGULATORY INFORMATION</b>	
<b>15.1</b>	<b>Safety, health environmental regulations /legislation specific for substance mixture</b> <ul style="list-style-type: none"> <li>- Only staff trained in epoxy treatment can handle the substance</li> <li>- dust limit value 3mg / m3 AFS 2018: 1</li> <li>- Occupational Safety refers to AFS 2018: Hygiene Limits</li> <li>- Occupational safety refers to AFS 2018: Chemical jobs</li> <li>- Occupational safety refers to AFS 2018: Health inspections of working life</li> </ul>
<b>15.2</b>	<b>Chemical safety assesment</b> No chemical safety assesment has been carried out

<b>SECTION 16: OTHER INFORMATION</b>	
<b>CHANGES TO OTHER VERSION</b> 15.1 added	

Hazard statements in text

302 Harmful if swallowed  
H312 Harmful if swallowed  
H314 Causes severe skin damage and eye damage  
H317 May cause allergic skin reactions  
H412 Harmful long-term effects on aquatic organisms

**Explanations of abbreviations****ADR: International Convention on the International Carriage of Dangerous Goods by Road****RID: French International Motor Insurance (International Transport of Dangerous Goods by Rail)****IMDG: International Marine Code for Dangerous Goods****IATA: International Air Transport Association****GHS: A globally harmonized classification and labeling system for chemicals****CLP: Classification, Labeling and Packaging of Substances and Mixtures**

DATE 21.8.2018 Vs 1.2

PREVIOUS DATE:Vs 1.0 16.3.2017

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**EINECS: European Inventory of Existing Commercial Chemical Substances**

**CAS: Chemical Abstracts Service (Division of the American Chemical Society)**

**Data sources**

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**Method used for rating rating**

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**List of R and S phrases and / or hazard and precautionary statements**

**GHS07 GHS05**

**Training of employees**

**Only a trained employee can handle the product**