

**Safety Data Sheet**  
**Syntho-Subsea LV™ – Part A**

**Section 1. Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** Syntho-Subsea LV – Part A  
**Description:** Corrosion control, sealant, coating and patching.  
**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Recommended use:** Epoxy solution  
**Uses advised against:** No information available

**1.3. Details of the supplier of the safety data sheet**

**Supplier:** NRI  
3875 Fiscal Court Suite #100  
Riviera Beach, FL 33404. USA.  
1- 561 - 683 - 6992  
**E-mail address:** Europe@neptuneresearch.com

**1.4. Emergency telephone number:** USA 800-535-5053 (only available during office hours)  
Europe +48 33 488 12 85 (only available during office hours)

**Section 2. Hazards identification**

**2.1. Classification of the substance or mixture**

**2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)**

Skin corrosion/irritation – Category 2  
Sensitization, skin – Category 1  
Eye damage/ irritation – Category 2A  
Sensitization, respiratory - Category 1  
Hazardous to the aquatic environment, long-term hazard – Category 2

**2.2 Label elements**



**Signal word:** Warning

**Hazard statements:**

H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H411 Toxic to aquatic organisms in unreacted condition, may cause long term adverse effects in the aquatic environment (unmixed material only – ONCE MIXED THE MATERIAL IS HARMLESS TO ENVIRONMENT.)



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### Precautionary statement:

P261 – Avoid breathing mist/vapours/spray.

P264 – Wash hands and skin contact areas thoroughly after handling.

P272 – Contaminated clothing should not be allowed out of the work place.

P273 – Avoid release to the environment. (ONLY IN UNMIXED STATE)

P280 – Wear protective gloves, eye protection and face protection etc.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P305–P338+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.

P333 + P313 if skin irritation or rash occurs: Get medical advice/attention.

P337 + P313 if eye irritation persists: Get medical advice/attention.

P362 – Take off contaminated clothing and wash before reuse.

P391 – Collect spillage.

P501 – Dispose of contents/container through a waste management company authorized by the local government.

### 2.3. Other information: N/A

## Section 3. Composition/ Information on Ingredients

3.1. Substances: Not Applicable

### 3.2. Mixtures

Component	EC No	CAS #	Weight %	EU-GHS Substance Classification	REACH Number
Bisphenol A – liquid epoxy resin	500-033-5	25068-38-6	50 – 75	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
P-Tertbutylphenyl glycidyl ether	221-453-2	3101-60-8	5 – 10	Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Chronic 2 (H411)	Not data available
Poly(terephthaloylchloride) P-Phenylenediamine	607-870-6	26125-61-1	2 – 5	Not classified	Not data available

## Section 4. First Aid Measures

### 4.1. Description of first-aid measures

#### First aid measures for accidental

**General advice:** In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.



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**Eye Exposure:** Flush with copious amount of water. Preferably lukewarm, for at least 15 minutes, holding eyelids open at all times. Refer individual to a physician or ophthalmologist for immediate follow up.

**Skin Exposure:** Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Wash contaminated clothing thoroughly before reuse. Get under safety shower after removing clothing. Seek medical attention if irritation develops after area is washed.

**Inhalation:** Move to an area free from risk of further exposure. Administer oxygen as needed. Obtain medical attention. Asthmatic –type symptoms may develop and may be immediate or delayed up to several hours. Consult physician should this development occur.

**Ingestion:** Do not induce vomiting. Give one to two cups of milk or water to drink. Do not give anything by mouth to an unconscious person, consult a physician.

**4.2 Most important symptoms/effects, acute and delayed:** Not Available.

**4.3 Indication of immediate medical attention and special treatment needed:** Not Available.

### Section 5. Fire Fighting Measures

#### 5.1 Extinguishing media

**Suitable extinguishing media:** Carbon dioxide, foam, dry chemical, water fog.

**Unsuitable extinguishing media:** Water jet.

#### 5.2 Special hazards arising from the substance or mixture

**Hazardous combustion products:** Combustion products may include carbon monoxide, carbon dioxide, and other unspecified products may be produced.

**5.3 Advice for firefighters:** Use self-contained breathing apparatus, and full protective equipment. Use protective firefighting clothing and positive pressure self-contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water since this may spread the area of the fire.

### Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

##### 6.1.1 For non-emergency personnel

**Protective equipment:** Use personal protective equipment (See Section 8) to prevent any contamination of skin, eyes and personal clothing.

**Emergency procedures:** Remove ignition sources. Provide sufficient ventilation, control dust. Evacuate personnel to safe areas.

**6.1.2 For emergency responders:** Use appropriate personal protective clothing. Use gloves and safety glasses.

**6.2 Environmental precautions:** Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Avoid release to the environment.

#### 6.3. Methods and materials for containment and cleaning up

**6.3.1 For containment:** Cover drains. Prevent contamination of soil and water.

**6.3.2 For cleaning up:** Stop leak without additional risk. Dike and absorb with inert absorbent material (e.g., sand, earth, vermiculite, diatomaceous earth) and collect in a suitable, closed and labeled container. Wash the spill area with water and detergent.



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**6.3.3 Other Information:** Clear spills immediately.

**6.4 Reference to other sections:** See Section 12 for additional information. Dispose of in accordance with applicable local and federal environmental control regulations.

### Section 7. Handling and Storage

#### 7.1 Precautions for safe handling

**Handling:** Handle in accordance with good industrial hygiene and safety practice. Do not breathe vapors or spray mist. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not take internally.

**Hygiene measures:** When using, do not eat, drink or smoke. Remove and wash contaminated clothing before re-use. Provide regular cleaning of equipment, work area and clothing. Wash thoroughly after handling.

**7.2 Conditions for safe storage including any incompatibilities** Store between 5 and 40°C in a dry well-ventilated place away from sources of heat, ignition and direct sunlight. Keep in original containers. Store in tightly closed containers to prevent moisture absorption and loss of volatiles. Store away from heat and open flame. Containers which are opened should be properly resealed and kept upright to prevent leakage. Store away from oxidizing agents and strongly alkaline and acid materials. The principles contained in general guidance for storage of packaged potentially dangerous substances should be observed when storing this product.

#### 7.3 Specific end use(s)

**Exposure scenario:** No information available.

**Other guidelines:** No information available

### Section 8. Exposure Controls / Personal Protection

#### 8.1 Control parameters

**Exposure limits:** Not established for any ingredient

**Derived no effect level:** No information available.

**Predicted No Effect Concentration (PNEC):** No information available.

#### 8.2 Exposure controls

**8.2.1 Appropriate engineering controls:** Ensure adequate ventilation, especially in confined areas.

##### 8.2.2 Personal protective equipment

**8.2.2.1 Eye and face protection:** Eye protection designed to protect against liquid splashes should be worn.

**8.2.2.2 Skin protection:** Wear liquid-proof, chemical resistant gloves (nitrile-butyl rubber, neoprene, butyl rubber or natural rubber) and full body-covering clothing.

**8.2.2.3 Respiratory protection:** Air fed respiratory protective equipment should be worn when sprayed if exposure of the sprayer or other people nearby cannot be controlled to below the Occupational Exposure Values and engineering methods cannot reasonably be improved.

**8.3 Environmental exposure controls:** Do not allow material to contaminate ground water system.

### Section 9. Physical and Chemical Properties

#### 9.1 Information on basic physical and chemical properties



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<b>Physical State:</b>	Liquid
<b>Appearance:</b>	White pasty
<b>Odour:</b>	Slightly sweet characteristic of epoxy resin
<b>Odour threshold:</b>	No data available

<u>Property</u>	<u>Values</u>	<u>Remarks-Method</u>
<b>pH:</b>	No data available	None known
<b>Melting point range:</b>	No data available	None known
<b>Boiling point/boiling range:</b>	No data available	None known
<b>Flash Point:</b>	>250 °F	DIN51758 (Pensky-Martins Closed Cup)
<b>Evaporation rate:</b>	No data available	None known
<b>Flammability (solid, gas):</b>	No data available	None known
<b>Upper/lower flammability or explosive limits:</b>	No data available	None known
<b>Vapour pressure:</b>	No data available	None known
<b>Vapour density:</b>	No data available	None known
<b>Relative density:</b>	1.2 Kgs/Ltr	BS3900 Part A19
<b>Water Solubility:</b>	Immiscible	None known
<b>Partition coefficient (n-octanol/water):</b>	No data available	None known
<b>Auto-ignition temperature:</b>	No data available	None known
<b>Decomposition temperature:</b>	No data available	None known
<b>Viscosity:</b>	25 – 50 Poise	BS3900 Part A7
<b>Explosive properties:</b>	No data available	None known
<b>Oxidizing properties:</b>	No data available	None known

### 9.2 Other information

**VOC Content (%):** Essentially zero under normal conditions

## Section 10. Stability and Reactivity

**10.1 Reactivity:** No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability:** Stable under normal conditions.

**10.3 Possibility of hazardous reactions:** None under normal processing. Hazardous polymerization will not occur by itself.

**10.4 Conditions to avoid:** Mixing large volumes with epoxy curing agents. Volumes of one gallon are safe however expect a significant exotherm within 15 - 20 minutes at 70°F.

**10.5 Incompatible materials:** Keep away from oxidising agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

**10.6 Hazardous decomposition products:** In a fire, hazardous decomposition products such as carbon monoxide, carbon dioxide, and other unspecified products may be produced.

## Section 11. Toxicological Information

**11.1 Information on toxicological effects:**





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### Acute toxicity:

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mixture	>5,000 mg/kg (rat)	20,000 mg/kg (rabbit)	-

**Skin corrosion/irritation:** May be irritant to skin.

**Serious eye damage/irritation:** May be irritant to eyes.

**Sensitization:** May be skin sensitizer.

**Mutagenic Effects:** No information available.

**Carcinogenic Effects:** No information available.

**Reproductive Toxicity:** No information available.

**Developmental Toxicity:** No information available.

**STOT- single exposure:** No information available.

**STOT- repeated exposure:** No information available.

**Target Organ Effects:** No information available.

**Aspiration Hazard:** No information available.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available

**Delayed and immediate effects and also chronic effects from short and long-term exposure:**

**Short term exposure:** Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies.

**Long term exposure:** No specific data.

**Symptoms related to the physical, chemical and toxicological characteristics:** No data available

**Delayed and immediate effects and also chronic effects from short and long term exposure:**

Short term exposure: No specific data.

Long term exposure: No specific data

## Section 12. Ecological Information

**12.1 Toxicity:** No data is available on the mixed product.

**Aquatic toxicity:** Bisphenol A based liquid epoxy resins as well as many reactive diluents were classified as dangerous for the environment by the Association of Plastic Manufacturers in Europe (APME) based on available data and knowledge. When properly cured with appropriate curing agent this epoxy base is completely inert to the environment.

**12.2 Persistence and degradability:** No further relevant information available.

**12.3 Bioaccumulative potential:** No further relevant information available.

**12.4 Mobility in soil:** No further relevant information available.

**12.5 Results of PBT and vPvB Assessment:** No further relevant information available.

**12.6 Other adverse effects:** No further relevant information available.

**12.7 Additional information:** No further relevant information available

## Section 13. Disposal Considerations

**13.1 Waste treatment methods:**



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**13.1.1 Product / Packaging disposal:** Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**Waste codes / waste designation according to LoW:** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

**13.1.2 Waste treatment-relevant information:** Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**13.1.3 Sewage disposal-relevant information:** This product should not be allowed to enter drains, water courses or the soil.

**13.1.4 Other disposal recommendations:** Dispose of waste and residues in accordance with local authority requirements.

### Section 14. Transport Information

#### DOT

14.1 Proper Shipping Name:	NOT REGULATED FOR GROUND TRANSPORT
14.2 UN Proper Shipping Name:	N/A
14.3 Transport hazard class:	N/A
14.4 Packing group:	N/A
14.5 Environmental hazard:	N/A
14.6 Special precaution:	N/A

#### IMDG

14.1 Proper Shipping Name:	UN 3082
14.2 UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A liquid epoxy polymer, p-tertbutylphenyl glycidyl ether)
14.3 Transport hazard class:	9
14.4 Packing group:	III
14.5 Environmental hazard:	Yes
14.6 Special precaution:	
Ems#:	F – A, S – F

#### IATA

14.1 Proper Shipping Name:	UN 3082
14.2 UN Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Bisphenol A liquid epoxy polymer, p-tertbutylphenyl glycidyl ether)
14.3 Transport hazard class:	9
14.4 Packing group:	III
14.5 Environmental hazard:	Yes
14.6 Special precaution:	
Ems#:	F – A, S – F

### Section 15. Regulatory Information



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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**SARA Title III section 311/312 (40CFR370):** Acute health hazard

**SARA Title III section 313 (40CFR372):** No reportable components

**CERCLA status (40CFR302):** No reportable quantity components

**TSCA inventory status:** Reported/included

**Canadian DSL Status:** Reported/included

**Chemicals known to the state of California to cause cancer or reproductive toxicity:** This product contains epichlorohydrin CAS# 106 – 89 – 8 (trace amounts)

**REACH Annex XIV (SVHC):** No listed components

**REACH Annex XVII:** No listed components

**REACH status (EC 1907/2006):** This material has been registered, pre-existed or is otherwise exempted from registration under the Registration, Evaluation and Authorization of Chemical Substances.

**Chemical safety assessment:** Not available

### Section 16. Other Information

#### Full text of H-Statements referred to under sections 2 and 3

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

#### Key Legend Information:

N/A – Not Applicable

ND – Not Determined

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

PEL – Permissible Exposure Limit

NIOSH – National Institute for Occupational Safety and Health

**HMIS ratings:** Health: 2; Flammability: 1; Reactivity: 0.

The information contained herein is based on the data available to us and is believed to be accurate. The data is offered in good faith as typical values and not as product specification. The information in this data sheet was compiled from information supplied by the vendors of the components of this compound. NRI makes no warranty either expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. The recommended industrial hygiene and safe handling procedures are believed to be genuinely applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. NRI assumes no responsibility for injury from the use of the product described herein. The information is intended only to assist in the safe handling of this material.

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