



## Section 1 Product and Company Identification

**Product Name:** Syntho-Subsea LV – Part B  
**Supplier:** CSNRI | 621 Lockhaven Drive. Houston, TX 77073 | +1 281.590.8491  
**Emergency Phone Number:** 800.424.9300 (CHEMTREC)  
 +1 703.741.5970 (Outside the US)  
**Product Description:** Hardener solution  
**Product Use:** Corrosion control, sealant, coating and patching.  
**Chemical Name or Synonym:** N/A

## Section 2 Hazards Identification

### Classification of the substance or mixture

Acute Toxicity – Category 4  
 Acute Toxicity / inhalation – Category 4  
 Skin corrosion / Irritation – Category 1B  
 Eye damage/ irritation – Category 1  
 Sensitization, skin – Category 1  
 STOT (RE) – Category 2

### Label Elements:



### Hazard Statements:

H302 Harmful if swallowed  
 H332 Harmful if inhaled  
 H314 Causes severe skin burns and eye damage  
 H318 Causes serious eye damage.  
 H317 May cause an allergic skin reaction.  
 H373 May cause damage to organs (liver, muscles) through prolonged or repeated exposure.

### Signal Word: Danger

### 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 workplace.  
 P273 – Avoid release to the environment. (ONLY IN UNMIXED STATE)  
 P280 – Wear protective gloves, eye protection and face protection etc.  
 P301 + P312 IF SWALLOWED: Call a Poison Center / doctor if you feel unwell.  
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
 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.

### Section 3 Composition/Information on Ingredients

Component	CAS#	%Composition
Methyleneoxide, polymer with benzenamine, hydrogenated	135108-88-2	12 – 24
Benzyl alcohol	100-51-6	10 – 20
4,4'-Methylene biscyclohexanamine	1761-71-3	1 – 2

*Note: The rest of the ingredients have not been disclosed to protect confidentiality of the product. There are no additional ingredients present which are classified as hazardous and contribute to the classification of the substance and hence require reporting in this section as per GHS.*

### Section 4 First Aid Measures

#### **First Aid Measures for Accidental:**

**Eye Exposure:** Hold eyelids apart, initiate and maintain gentle irrigation, (flushing), until the patient receives medical care. If medical care is not available maintain irrigation for 1 hour. Remove contact lenses.

**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:** If breathing is stopped or labored give assisted respirations. Supplemental oxygen may be indicated. If heart has stopped, give cardiopulmonary resuscitation immediately. Move to fresh air.

**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. If vomiting occurs naturally have patient lean forward to reduce the risk of aspiration.

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

**Most important symptoms/effects, acute and delayed:** No Available

**Over-exposure signs/symptoms:** No Available

### Section 5 Fire Fighting Measures

**Flammability Classification:** Combustible IIIB

**Suitable Extinguishing Media:** Carbon dioxide, foam, dry chemical, water fog

**Unsuitable Extinguishing Media:** Water jet.

**Special Fire Fighting Procedures:** Use self-contained breathing apparatus, and full protective equipment.

**Special Protective Equipment for Fire-fighters:** 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.

**Unusual Fire and Explosion Hazards:** Combustion products may include, but are not limited to: phenolics, carbon dioxide, acrolein, and carbon dioxide.

**Section 6 Accidental Release Measures**

**Personal Precautions, Protective Equipment and Emergency Procedures:** Exclude sources of ignition and ventilate area. Exclude non-essential personnel. Avoid breathing vapours. Refer to protective measures listed in Sections 7 and 8.

**Cleanup and Disposal of Spill:** Contain and collect spillages with non-combustible absorbent materials e.g. sand, earth, vermiculite, diatomaceous earth and place in a suitable container for disposal in accordance with waste regulations (see Section 13). Do not allow to enter drains or water courses. Clean preferably with a detergent, avoid use of solvents. If the product enters drains or sewers immediately contact the local water company; in the case of contamination of streams, rivers or lakes the relevant environmental agency. Dispose of in accordance with applicable local and federal environmental control regulations.

**Section 7 Handling and Storage**

**Precautions for safe handling:** Put on appropriate personal protective equipment (see Section 8). Provide sufficient air exchange and/or exhaust in workrooms. Ensure adequate ventilation. Handle and open container with care. When using do not eat, drink or smoke.

**Conditions for safe storage including any incompatibilities:** Keep away from food, drink and animal feeding stuffs. Keep container tightly closed. Observe the label precautions. Store between 5 and 40°C in a dry well ventilated place away from sources of heat, ignition and direct sunlight. No smoking. Prevent unauthorized access. 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.

**Section 8 Exposure Controls / Personal Protection**

**Exposure Guideline Limits:** No data available

**Appropriate Engineering Controls:** Ventilation must be adequate to maintain the ambient workplace atmosphere below the exposure limit(s) outlined in the SDS. Provide readily accessible eye wash stations and safety showers.

**Personal Protective Equipment:**

**General Protection:** All personal protective equipment, including respiratory protective equipment, used to control exposure to hazardous substances must be selected to meet the requirements of the OSHA regulations.

**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.

**Eye / Face Protection:** Eye protection designed to protect against liquid splashes should be worn.

**Skin Protection:** Cotton or cotton/synthetic overalls or coveralls are normally suitable. Grossly contaminated clothing should be removed and the skin washed with soap and water or a proprietary skin cleaner. Regular skin inspection of users of this product is recommended.

ALWAYS WASH YOUR HANDS BEFORE EATING, SMOKING OR USING THE TOILET. See Section 12 for detailed information.

**Hand Protection:** When skin exposure may occur, advice should be sought from glove suppliers on appropriate types and usage times for this product. The instructions and information provided by the glove supplier on use, storage, maintenance and replacement must be followed. Barrier creams may help to protect exposed areas of skin, but are not substitutes for full physical protection. They should not be applied after exposure has occurred.



### Section 9 Physical and Chemical Properties

<b>Physical State:</b>	Liquid (paste)
<b>Appearance:</b>	Dark green paste
<b>Odour:</b>	Slightly sweet characteristic of epoxy resin
<b>Odour threshold:</b>	No data available
<b>PH:</b>	No data available
<b>Melting point range:</b>	No data available
<b>Boiling point/boiling range:</b>	No data available
<b>Flash Point:</b>	>219 °F (> 104 °C)
<b>Evaporation rate:</b>	Slower than ether
<b>Flammability (solid, gas):</b>	No data available
<b>Upper/lower flammability or explosive limits:</b>	No data available
<b>Vapour pressure:</b>	No data available
<b>Vapour density (water = 1):</b>	No data available
<b>Relative density:</b>	1.6 kg/Lt
<b>Water Solubility:</b>	Immiscible
<b>Partition coefficient (n-octanol/water):</b>	No data available
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Viscosity:</b>	250 – 500 Poise
<b>Explosive properties:</b>	No data available
<b>Oxidizing properties:</b>	No data available
<b>VOC Content (%):</b>	Essentially zero under normal conditions

### Section 10 Stability and Reactivity

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

**Chemical Stability:** Stable under standard use and storage conditions.

**Conditions to Avoid:** Incompatible materials.

**Incompatible Materials / Chemicals:** Keep away from oxidizing agents and strongly alkaline and strongly acidic materials to prevent the possibility of an exothermic reaction.

**Hazardous Decomposition Products:** In a fire, hazardous decomposition products such as smoke, acrolein, carbon monoxide, carbon dioxide, and oxides of nitrogen may be produced.

**Hazardous Polymerization:** Will not occur.

### Section 11 Toxicological Information

**Toxicological effects:**

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

**Inhalation:** May be irritant to mucous membrane.



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

**Serious eye damage/irritation:** Splashes in the eye may cause irritation and reversible local damage.

**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:**

Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitisation to other epoxies. Skin contact with the preparation and exposure to mist and vapour should be avoided.

**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

**Ecotoxicity:** No data is available on the mixed product.

**Aquatic toxicity:** No further relevant information available.

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

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

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

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

## Section 13 Disposal Considerations

**Waste treatment methods:** Do not dump to ground, sewer or watercourses. Discard any product, residue, disposable container or liner in full compliance with Federal, State, and Local regulations.

**Uncleaned packaging:** Dispose of in accordance to all local, state, and/or national regulation.

## Section 14 Transport Information

Transport within the user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of accident or spillage

### IMDG

UN-Number: UN2735

Proper Shipping Name: Amine, liquid, corrosive, n.o.s

Hazard Class: 8

Packing Group: III

### ADR/RID

UN-Number: UN2735

Proper Shipping Name: Amine, liquid, corrosive, n.o.s



Hazard Class: 8  
Packing Group: III

**IATA**

UN-Number: UN2735  
Proper Shipping Name: Amine, liquid, corrosive, n.o.s  
Hazard Class: 8  
Packing Group: III

**Section 15 Regulatory Information****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: 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 Authorisation of Chemical Substances.  
**Chemical safety assessment:** Not available.

**Section 16 Other Information****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.

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