



SYNTHO-SUBSEA LV - PART A

Section 1 Product and Company Identification

Product Name: Syntho-Subsea LV – Part A
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: Epoxy 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

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

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.)

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.

Section 3 Composition/Information on Ingredients



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Component	CAS#	%Composition
Bisphenol A liquid epoxy resin	25068-38-6	50 – 90
P-Tertbutylphenyl glycidyl ether	3101-60-8	5 – 10
Poly(Tterephthaloylchloride) P-Phenylenediamine	26125-61-1	2 – 5

Section 4 First Aid Measures

First Aid Measures for Accidental:

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.

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 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

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.



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Section 7 Handling and Storage

Precautions for safe handling: 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: Not established for any ingredient

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

Physical Appearance:	White pasty liquid
Odor:	Slightly sweet characteristic of epoxy resin
Odor Threshold:	ND
pH:	ND
Melting Point Range:	ND
Boiling point:	ND
Evaporation rate:	ND
Flash Point:	>250°F. (Method DIN 51758 Pensky-Martins Closed Cup)
Flammability Limits (vol/vol%):	Lower: N/A Upper: N/A
Vapor Pressure:	ND
Vapor Density:	ND
Relative Density:	1.2 Kgs/Ltr (Method BS3900 Part A19)



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Water Solubility:	Immiscible
Partition coefficient (n-octanol/water):	ND.
Auto-ignition Temperature:	ND
Decomposition Temperature:	ND
Viscosity:	25 – 50 Poise (Method BS3900 Part A7)
VOC content:	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: 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.

Incompatible Materials / Chemicals: Keep away from oxidising 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 carbon monoxide, carbon dioxide, and other unspecified products may be produced.

Hazardous Polymerization: Self polymerization will not occur

Section 11 Toxicological Information

Toxicological effects:

Acute Oral Toxicity: LD50: > 5,000mg/kg (rat)

Acute Dermal Toxicity: LD50: >20,000mg/kg (rabbit)

Skin irritation: May be irritant to skin.

Eyes 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.

Section 12 Ecological Information

Ecotoxicity: 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.

Persistence and degradability: No further relevant information available.



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Bio accumulative 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

DOT: NOT REGULATED FOR GROUND TRANSPORT

IMDG

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

IATA

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

Section 15 Regulatory Information

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



The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health and safety legislation.

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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