





**SECTION 1: IDENTIFICATION**

<b>PRODUCT NAME</b>	<b>ENVELO-SEAL™ 0.5 OC CL1 “B” Component</b>
<b>CAS NUMBER</b>	Not available
<b>PRODUCT USE</b>	Polyurethane Foam
<b>MANUFACTURER</b>	Specialty Products, Inc. (SPI)
<b>ADDRESS</b>	2410 104th Street Ct S Suite D, Lakewood, WA 98499
<b>PHONE</b>	253-588-7101 (800) 627-0773
<b>FAX</b>	253-588-7196
<b>EMERGENCY CONTACT</b>	FOR SPILLS, LEAKS, FIRE, OR EXPOSURE CALL <b>CHEMTREC</b>
<b>TOLL FREE</b>	<b>800-424-9300</b>
<b>INTERNATIONAL</b>	+1-703-527-3887
<b>FAX</b>	913-321-1490

**SECTION 2: HAZARDS IDENTIFICATION**

**GHS CLASSIFICATION**

GHS PICTOGRAM	<b>NEW GHS SCALE</b>														
	<table border="1"> <tr><th colspan="2">GHS SCALE</th></tr> <tr><td>1</td><td>Extreme</td></tr> <tr><td>2</td><td>Serious</td></tr> <tr><td>3</td><td>Moderate</td></tr> <tr><td>4</td><td>Slight</td></tr> </table>   <table border="1"> <tr><td>HEALTH</td></tr> <tr><td>FLAMMABILITY</td></tr> <tr><td>REACTIVITY</td></tr> <tr><td>SPECIAL INFORMATION</td></tr> </table>	GHS SCALE		1	Extreme	2	Serious	3	Moderate	4	Slight	HEALTH	FLAMMABILITY	REACTIVITY	SPECIAL INFORMATION
GHS SCALE															
1	Extreme														
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3	Moderate														
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HEALTH															
FLAMMABILITY															
REACTIVITY															
SPECIAL INFORMATION															
<b>WARNING</b>	Personal Protective Equipment 														

**EMERGENCY OVERVIEW**

HAZARD STATEMENTS		PRECAUTIONARY STATEMENTS	
H320	Causes eye irritation.	P280	Wear protective gloves/protective clothing/eye protection/face protection.
H315	Causes skin irritation.	P264	Wash skin thoroughly after handling.
H335	May cause respiratory irritation.	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
H302	Harmful if swallowed.	P271	Use only outdoors or in a well-ventilated area.
		P270	Do not eat, drink, or smoke when using this product.

**APPEARANCE, COLOR, ODOR:**

Liquid, pale yellow, slight odor.

**USA:** This material is considered hazardous to health by the OSHA Hazard Communication Standard (29 CFR 1910-1200).

**READ THE ENTIRE SDS FOR MORE THOROUGH EVALUATION OF THE HAZARDS**

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

COMMON NAME	CAS NUMBER	% WEIGHT
*Proprietary	Not available	10-35
Tris (2-chloro-1-methylethyl) Phosphate	13674-84-5	5-30
Nonylphenol Ethoxylated	127087-87-0	10-25
*Proprietary	Not available	3-7
2-(2-(2-dimethylamino ethoxy)-ethylmethylamino)-amino	83016-70-0	0-2

\*The specific chemical identity and exact percentage (concentration) is withheld as a trade secret per applicable regulations and statutes.



#### SECTION 4: FIRST AID MEASURES

<b>EYE:</b>	<b>H320</b>	Causes eye irritation. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF eye irritation persists: Get medical advice/attention.
<b>SKIN:</b>	<b>H315</b>	Causes skin irritation. IF ON SKIN: wash with plenty of soap and water. IF SKIN irritation or rash occurs: Get medical advice/attention.
<b>INHALATION:</b>	<b>H335</b>	May cause respiratory irritation. IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>INGESTION:</b>	<b>H302</b>	Harmful if swallowed. IF SWALLOWED: Rinse mouth. Do not induce vomiting. Call a POISON CENTER or doctor/physician IF you feel unwell.
<b>NOTES TO PHYSICIAN:</b>		Symptomatic and supportive therapy as needed. Following severe exposure, medical follow-up should be monitored for 48 hours.

#### SECTION 5: FIRE FIGHTING MEASURES

<b>FLASH POINT:</b>	Closed cup: >199°F (>93° C).
<b>HAZARDS WHEN ON FIRE OR NEAR FLAME:</b>	May produce combustion products of carbon monoxide and carbon dioxide. When in a closed container, pressure will increase which may lead to a rupture of the container.
<b>SUITABLE EXTINGUISHING MEDIA:</b>	Use an extinguishing agent suitable for the surrounding fire.
<b>UNSUITABLE EXTINGUISHING MEDIA:</b>	None known.
<b>SPECIAL EXPOSURE HAZARDS:</b>	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. If in a fire or heated, a pressure increase will occur and the container may rupture.
<b>SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. PVC boots, gloves, safety helmet and protective clothing should be worn.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>ACCIDENTAL RELEASE MEASURES:</b>	For major spills call <b>CHEMTREC</b> : Toll free <b>1-800-424-9300</b> for international call <b>1-703-527-3887</b> .
<b>PERSONAL PRECAUTIONS:</b>	Wear appropriate personal protective equipment recommended in SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION of this SDS. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation.
<b>ENVIRONMENTAL PRECAUTIONS:</b>	This material may contaminate the environment without proper control and response to spills. Ensure spilled material does not come in contact with soil, waterways, drains, sewers, or other runoff that could further disperse the material.
<b>METHODS FOR CONTAINMENT:</b>	Use diking or capping to control migration. Contain and collect spillage with non-combustible absorbent materials (e.g., sand, earth, vermiculite, or diatomaceous earth) and place in container for disposal according to local, state, and/or federal regulations.

<b>METHODS FOR CLEANING UP:</b>	Only proceed with clean up by taking the appropriate personal protection measures required and ensure surrounding area does not contain further hazards that could worsen the spill, cause migration, or cause further harm (i.e. eliminate any ignition sources). Move any non-contaminated, non-leaking containers from the spill zone if it can be done safely. Dike, dam, or further restrict and stop active leaks without posing further damage or harm to individuals, the environment, and/or structures. Contain and collect spillage. See SECTION 13: DISPOSAL CONSIDERATIONS for disposal information and SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION for recommended Personal Protective Equipment (PPE). Obey all local, state, and federal regulations during clean up.
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## SECTION 7: HANDLING & STORAGE

<b>GENERAL:</b>	Ideal storage temperature is 60-90°F (15-32°C). Handling and storage shall be in accordance with local, state/provincial, or federal regulations.
<b>HANDLING:</b>	Before opening this package, read and follow warning labels on all components. Avoid contact with the product or reaction mixture. Put on appropriate personal protective equipment. Use only with adequate ventilation to ensure that the occupational exposure limit is not exceeded, use respirator when ventilation is inadequate. Avoid breathing aerosols, mists, and vapors. (See SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION for details). Do not ingest. Eating, drinking, and smoking shall be prohibited in areas where this material is handled, stored, and processed. Workers shall wash hands and face before eating, drinking, and smoking. Persons with a history of skin sensitization problems, asthma, allergies, or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes, on skin, or clothing. Keep in the original container or an approved alternative made from a compatible material. Kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse containers.
<b>STORAGE:</b>	Store in accordance with local, state, and federal regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see SECTION 10 STABILITY AND REACTIVITY), food, and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>EXPOSURE LIMITS:</b>	As of the latest revision of this document, no known exposure limits exist for this product. The absence of current exposure data does not relieve an employer, user, or other to determine the specific hazards and appropriate exposure protection measures in the applicable and use of this product. Personal, workplace, atmospheric, and/or biological monitoring may be required to determine the effectiveness of engineering, administrative, and/or other best practice control measures. These monitoring results determine the need for and type of respiratory protective equipment, if any. Refer to the appropriate local, state, and federal regulations and statutes for the most current information and for guidance in the determination of hazardous conditions and the correlating personal protective equipment.
<b>PREVENTIVE MEASURES:</b>	Conditions of use, adequacy of engineering or other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.
<b>ENGINEERING CONTROLS:</b>	Use local exhaust ventilation to maintain airborne concentrations below the threshold limit value (TLV). Suitable respiratory equipment should be used in cases of insufficient ventilation and where operational procedures demand it. For guidance on engineering control measures refer to publications such as the American Conference of Government Industrial hygienist (ACGIH) current edition of 'Industrial Ventilation, a Manual of Recommended Practice.

<b>HYGIENE MEASURES:</b>	Wash hands, forearms, and face thoroughly with plenty of soap and water after handling chemical products, before eating, smoking, and using the restroom and at the end of the working period. Appropriate engineering, administrative, and other best practice decontamination control measures must be used to isolate contaminants on clothing and to prevent unintended migration of contaminants. Handle clothing and other potentially contaminated material appropriately and in compliance with local, state, and federal regulations in the process of removing, washing/cleaning and reuse of these potentially contaminated materials. Ensure compliant use and location of eyewash station and safety showers.
<b>PERSONAL PROTECTIVE EQUIPMENT (PPE):</b>	
<b>EYE PROTECTION:</b>	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield.
<b>SKIN PROTECTION:</b>	Personal protective equipment for the body should be selected based on the task being performed, the risks involved, and should be approved by an industrial hygiene specialist before handling this product.
<b>HANDS PROTECTION:</b>	Chemical resistant gloves complying with applicable health and safety standards shall be worn when handling this product. Protective gloves are those made from butyl rubber, nitrile rubber, or polyvinyl alcohol. Appropriate hazard assessments in conjunction with an evaluation of the protection factors of chemical resistant gloves shall be performed to ensure the protective properties remain intact. It is noted that the time to breakdown of protection factors for different glove manufacturers varies. In the case of mixtures, the protection factors for chemical resistant gloves may be impacted and deteriorate at unpredictable rates without understanding the impact of the substance and the specific protection factors of the chemical resistant gloves.
<b>RESPIRATORY PROTECTION:</b>	Ensure adequate ventilation. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>ENVIRONMENTAL EXPOSURE CONTROLS:</b>	Industrial air monitoring may be required to determine any potential environmental hazards to the atmosphere. This monitoring may result in the use of engineering and administrative controls such as filtering and scrubbing systems to mitigate or eliminate potential contaminants.

## SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

<b>PHYSICAL STATE:</b>	Liquid	<b>FLASH POINT:</b>	>199°F (>93°C)
<b>COLOR:</b>	Pale yellow	<b>AUTO-IGNITION TEMPERATURE:</b>	Not available
<b>ODOR:</b>	Slight odor	<b>DECOMPOSITION TEMPERATURE:</b>	Not available
<b>ODOR THRESHOLD:</b>	Not available	<b>EXPLOSIVE LIMITS:</b>	Not explosive
<b>pH:</b>	Not applicable	<b>FLAMMABILITY:</b>	Not available
<b>WATER SOLUBILITY:</b>	Not available	<b>BOILING POINT:</b>	Not available
<b>PARTITION COEFFICIENT:</b>	Not available	<b>BOILING RANGE:</b>	Not available
<b>SPECIFIC GRAVITY:</b>	1.07±0.005 g/cc @ 77°F (25°C)	<b>MELTING/FREEZING POINT:</b>	Not available
<b>VISCOSITY:</b>	200±100 cps @ 77°F (25°C)	<b>VAPOR PRESSURE:</b>	Not available
<b>EVAPORATION RATE:</b>	Not available	<b>VAPOR DENSITY:</b>	Not available
<b>VOC:</b>	Not available	<b>RELATIVE DENSITY:</b>	8.9±0.05 lbs/gal

**SECTION 10: STABILITY & REACTIVITY**

<b>STABILITY:</b>	Stable when handled and stored at temperatures 60-90°F (15-32°C).
<b>INCOMPATIBILITY:</b>	No specific data.
<b>HAZARDOUS REACTION:</b>	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>HAZARDOUS POLYMERIZATION:</b>	Under normal conditions of storage and use, hazardous polymerization should not occur.
<b>CONDITIONS TO AVOID:</b>	No specific data.

**SECTION 11: TOXICOLOGY INFORMATION**

<b>ACUTE HEALTH EFFECTS:</b>	
<b>EYE CONTACT:</b>	Slightly irritating to the eyes.
<b>SKIN CONTACT:</b>	Toxic in contact with skin.
<b>INHALATION:</b>	Irritating to respiratory system.
<b>INGESTION:</b>	Harmful if swallowed.

<b>ACUTE TOXICITY:</b>				
COMPONENT NAME	CAS NUMBER	LD <sub>50</sub> Oral (mg/kg)	LD <sub>50</sub> Dermal (mg/kg)	LC <sub>50</sub> Inhalation (mg/m <sup>3</sup> /4hrs)
Polyether polyol	Not available	>5,000 (rat)	>2,000 (rabbit)	Not available
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	2,800-4,200 (rat)	>5,000 (rabbit)	Not available
Nonylphenol, ethoxylated	127087-87-0	200-2,000 (rat)	Not available	Not available
2-(2-(2-dimethylamino ethoxy)-ethylmethylamino)-amino	83016-70-0	Not available	750 (rabbit)	500-1,150 (rat)

<b>POTENTIAL CHRONIC EFFECTS:</b>	
<b>CHRONIC EFFECTS:</b>	Contains material that can cause target organ damage. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
<b>TARGET ORGANS:</b>	Contains material which may cause damage to the following organs: kidneys' the nervous system, cardiovascular system, central nervous system (CNS), and pancreas.
<b>CARCINOGENICITY:</b>	No known significant effects or critical hazards.
<b>MUTAGENICITY:</b>	No known significant effects or critical hazards.
<b>TERATOGENICITY:</b>	No known significant effects or critical hazards.
<b>FERTILITY EFFECTS:</b>	No known significant effects or critical hazards.
<b>DEVELOPMENTAL EFFECTS:</b>	No known significant effects or critical hazards.
<b>SKIN:</b>	Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact.

**SECTION 12: ECOLOGICAL INFORMATION**

<b>ENVIRONMENTAL EFFECTS:</b>	Ecological testing has not been conducted for this product. No environmental effects available.
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## SECTION 13: DISPOSAL CONSIDERATION

<b>WASTE DISPOSAL:</b>	By-product wastes or process waste generation should be eliminated and/or minimized when possible. Do not dispose of any contaminants into sanitary sewer systems, storm drains, Publicly Owned Treatment Works (POTW), or any other municipal waste water treatment facility without written approval and agreements for processing wastes with such enterprises. Dispose of raw or unused materials, wastes, and/or by-products in accordance with all applicable local, state, and federal laws. Employ the expertise and knowledge of qualified personnel or contractors in disposal of any and all variants of this product. Ensure material containers are cleaned to the applicable standards before recycling, disposing, or reusing containers. Take special precautions to avoid any cross contamination and potential unknown effects from mixing with other substances. Refer to SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION of this document for personal protection requirements. Disposal to the environment or in violation of environmental protection laws and statutes must be prevented.
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## SECTION 14: TRANSPORT INFORMATION

<b>PROPER SHIPPING NAME:</b>	
<b>DOT:</b>	Other regulated substance, liquid, n.o.s. (contains: Hydrofluorocarbon, trans-Dichloroethylene) * Reportable Quantity is 38,023 lbs. (17,247 kg)
<b>TDG:</b>	Not regulated.
<b>IMDG:</b>	Not regulated.
<b>IATA:</b>	Aviation regulated liquid, n.o.s. (contains: Hydrofluorocarbon, trans-Dichloroethylene)

This product could potentially contaminate aquatic and terrestrial environments if not handled in accordance with all precautions, regulations, and laws. Users, transporters, and all other applicable entities must review, follow, and apply any and all necessary precautions and procedures to eliminate and/or minimize potential hazards or risks to aquatic or terrestrial environments.

REGULATORY INFORMATION	UN NUMBER	CLASSES	PG*	LABEL	ADDITIONAL INFORMATION
<b>DOT Classification</b>	NA3082	9	III		<b>Reportable Quantity 38,023 lbs. (17,247 kg)</b> For ground, vessel, rail, when in quantities less than the RQ, this product ships non-regulated.
<b>IATA-DGR Classification</b>	UN3334	9	III		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 450 L Packaging Instruction: 964

\*PG: Packaging group

**SECTION 15: REGULATORY INFORMATION****U.S. Federal Regulations**

This material is considered hazardous to health under OSHA Hazard Communication Standard (29 CFR 1910.1200)

<b>HCS Classification:</b>	Irritant
<b>TSCA 8b Inventory:</b>	All components are listed on the TSCA inventory or are exempt.
<b>TSCA 5a (2):</b>	No components listed.
<b>TSCA 5e:</b>	No components listed.
<b>TSCA 12b:</b>	No components listed.
<b>Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):</b>	No components listed.
<b>Clean Air Act - Ozone Depleting Substances (ODS):</b>	This product does not contain nor is it manufactured with ozone depleting substances.
<b>SARA 313 Form R - Reporting Requirements:</b>	No components listed.
<b>SARA 311/312 hazard identification:</b>	Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard.
<b>CERCLA Hazardous substances:</b>	No components listed.

**STATE REGULATIONS:**

<b>PENNSYLVANIA/NEW JERSEY/MASSACHUSETTS - RTK:</b>	Check individual state requirements.
<b>California Prop 65:</b>	Check individual state requirements.

**CANADA**

<b>WHMIS (Canada):</b>	Information not available.
<b>CEPA DSL:</b>	Information not available.

**This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.**

**INTERNATIONAL LISTS:**

<b>Australia inventory (AICS):</b>	Information not available.
<b>China inventory (IECSC):</b>	Information not available.
<b>Japan inventory:</b>	Information not available.
<b>Korea inventory:</b>	Information not available.
<b>New Zealand inventory of Chemicals (NZIoC):</b>	Information not available.
<b>Phillipines inventory (PICCS):</b>	Information not available.

**SECTION 16: OTHER INFORMATION**

NFPA & HMIS	
4	Extreme
3	Serious
2	Moderate
1	Slight
0	No Hazard



**National Fire Protection Association (NFPA)**



<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0
SPECIAL INFORMATION	

**Hazardous Material Information System (HMIS)**

<b>HEALTH</b>	1
<b>FLAMMABILITY</b>	1
<b>REACTIVITY</b>	0
SPECIAL INFORMATION	

**Note: The customer is responsible for determining the PPE code for this material. At the time of publishing, the NFPA/HMIS and the New GHS scale had opposite scales of severity. Check the most recent publications for current information.**

<b>Date of Issue:</b>	11/18/2016
<b>Date of previous issue:</b>	4/12/2016
<b>For Your Protection:</b>	The information and recommendations in this publication is to the best of our knowledge, reliable. The toxicity and risk characteristics of products made by SPI will necessarily differ from the toxicity and risk characteristics that occur when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. The user is responsible to comply with all applicable federal, provincial or municipal laws and regulations. SPI MAKES NO WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.
<b>Preparation Information:</b>	This SDS supersedes <b>ALL</b> previous SDS versions.