


SECTION 1: IDENTIFICATION

PRODUCT NAME	ENVELO-SEAL™ 2.0 IB W “B” Component
CAS NUMBER	Not available
PRODUCT USE	Polyurethane Foam
MANUFACTURER	Specialty Products, Inc. (SPI)
ADDRESS	2410 104th Street Ct S Suite D, Lakewood, WA 98499
PHONE	253-588-7101 (800) 627-0773
FAX	253-588-7196
EMERGENCY CONTACT	FOR SPILLS, LEAKS, FIRE, OR EXPOSURE CALL CHEMTREC
TOLL FREE	800-424-9300
INTERNATIONAL	+1-703-527-3887
FAX	913-321-1490

SECTION 2: HAZARDS IDENTIFICATION

GHS LABEL ELEMENTS			
GHS PICTOGRAM			
			
WARNING			
GHS CLASSIFICATION			
CATEGORY			HAZARD STATEMENTS
Skin corrosion/irritation	Category 2	H315	Causes skin irritation.
Serious eye damage/eye irritation	Category 2B	H320	Causes eye irritation.
Specific target organ toxicity (STOT), single exposure; respiratory tract	Category 3	H335	May cause respiratory irritation.
PRECAUTIONARY STATEMENTS			
PREVENTION			
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.		
P264	Wash hands thoroughly after handling.		
P271	Use only outdoors or in a well-ventilated area.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
RESPONSE			
P302+P352	IF ON SKIN: Wash with plenty of soap and water.		
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.		
P312	Call a POISON CENTER or doctor/physician if you feel unwell.		
P362	Take off contaminated clothing and wash before reuse.		
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.		
P337+P313	IF eye irritation persists: Get medical advice/attention.		
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
P321	Specific treatment (see section 4 on this SDS).		
DISPOSAL			
P501	Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.		

READ THE ENTIRE SDS FOR MORE THOROUGH EVALUATION OF THE HAZARDS

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% WEIGHT
Polyester polyols	*Proprietary	**30-60
Polyether polyols	*Proprietary	**13-30
1,1,1,3,3-Pentafluoropropane	460-73-1	7-13
Triethyl phosphate	78-40-0	1-3
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	1-3
Diethyltoluenediamine	68479-98-1	1-3
Diethanolamine	34354-45-5	1-3
Pentamethyldipropylene- triamine	3855-32-1	1-3
Ethylene glycol	107-21-1	0.1-1

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

** Not disclosed/Not hazardous in normal industrial use.



SECTION 4: FIRST AID MEASURES

EYE:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
SKIN:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
INHALATION:	Move exposed person to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
INGESTION:	Get medical attention immediately. Wash out mouth with water. Move exposed person to fresh air. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
NOTES TO PHYSICIAN:	Adrenalin and similar sympathomimetic drugs should be avoided following exposure as cardiac arrhythmia may result with possible subsequent cardiac arrest. Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours as delayed pulmonary oedema may develop.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT:	Closed cup: >460°F (>273.78° C).
HAZARDS WHEN ON FIRE OR NEAR FLAME:	If in a fire or heated, a pressure increase will occur and the container may burst.
SUITABLE EXTINGUISHING MEDIA:	Use an extinguishing agent suitable for the surrounding fire.
UNSUITABLE EXTINGUISHING MEDIA:	None known.
SPECIAL EXPOSURE HAZARDS:	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.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:	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.
HAZARDOUS DECOMPOSITION:	Combustion of product will lead to carbon dioxide and carbon monoxide being produced.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:	For major spills call CHEMTREC : Toll free 1-800-424-9300 for international call 1-703-527-3887 .
PERSONAL PRECAUTIONS:	Wear appropriate personal protective equipment recommended in SECTION 8: EXPOSURE CONTROL/ PERSONAL PROTECTION of this SDS. Immediately contact emergency personnel. Evacuate the area. Keep upwind avoiding inhalation of vapors. Clean-up should only be performed by trained personnel. People dealing with major spillages should wear full protective clothing including respiratory protection.
ENVIRONMENTAL PRECAUTIONS:	This material may contaminate the environment without proper control and response to spills. Ensure spilled material does not come in contact with soil, waterway, drains, sewers, or other runoff that would further disperse the material. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air). Sources of ignition should be kept clear.
METHODS FOR CONTAINMENT:	Use diking or capping to control migration. Contain and absorb large spillages with a non-flammable absorbent carrier (such as vermiculite, earth, or sand). DO NOT USE combustible materials such as sawdust. Shovel into open-top drums or plastic bags for further decontamination, if necessary. Remove and properly dispose of residues. Dispose of via a licensed waste disposal contractor (See SECTION 13: DISPOSAL CONSIDERATIONS) Notify applicable government authorities if release is reportable.
METHODS FOR CLEANING UP:	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.

SECTION 7: HANDLING & STORAGE

GENERAL:	Ideal storage temperature is 60°F-80°F (16°C-27°C). Handling and storage shall be in accordance with local, state/provincial, or federal regulations.
HANDLING:	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.
STORAGE:	Keep container tightly closed and properly sealed when stored. When possible, store product indoors in a dry, well-ventilated area. Store in original container protected from direct sunlight, away from incompatible materials, and away from 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 and use appropriate containment to avoid environmental contamination. This product is hygroscopic. Containers should be tightly sealed to prevent moisture contamination. Do not expose to high temperatures for any length of time.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:	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 application 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.
ENGINEERING CONTROLS:	Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor, or mist, use process enclosures, local exhaust ventilation, and other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
HYGIENE MEASURES:	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.
PERSONAL PROTECTIVE EQUIPMENT (PPE):	
EYE PROTECTION:	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.
SKIN PROTECTION:	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.
HANDS PROTECTION:	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 of 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.
RESPIRATORY PROTECTION:	Ensure adequate ventilation. 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 OSHA 29CFR 1910.134, NIOSH (US), or CEN (EU).
ENVIRONMENTAL EXPOSURE CONTROLS:	Dispose of raw and spent materials and wastes in compliance with all local, state, and federal regulations to prevent potential environmental contamination. 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

PHYSICAL STATE:	Liquid	FLASH POINT:	>460°F (>237.78° C)
COLOR:	Pale yellow	AUTO-IGNITION TEMPERATURE:	Not available
ODOR:	Slight	DECOMPOSITION TEMPERATURE:	Not available
ODOR THRESHOLD:	Not available	EXPLOSIVE LIMITS:	Not explosive
pH:	Not applicable	FLAMMABILITY:	Not available
WATER SOLUBILITY:	Soluble	BOILING POINT:	Not available
PARTITION COEFFICIENT:	Not available	BOILING RANGE:	Not available
SPECIFIC GRAVITY:	1.08 g/cc @ 77°F (25°C)	MELTING/FREEZING POINT:	Not available
VISCOSITY:	550 mPa.s @ 77°F (25°C)	VAPOR PRESSURE:	Not available
EVAPORATION RATE:	Not available	VAPOR DENSITY:	Not available
VOC:	Not available	RELATIVE DENSITY:	9.0 lb/gal @ 77°F (25°C)

SECTION 10: STABILITY & REACTIVITY

STABILITY:	The product is stable.
INCOMPATIBILITY:	No specific data.
HAZARDOUS REACTION:	Under normal conditions of storage and use, hazardous reactions will not occur.
HAZARDOUS POLYMERIZATION:	Not available.
CONDITIONS TO AVOID:	No specific data.

SECTION 11: TOXICOLOGY INFORMATION

ACUTE HEALTH EFFECTS:				
EYE CONTACT:	Irritating to eyes.			
SKIN CONTACT:	Harmful in contact with skin. Irritating to skin. May cause sensitization by skin contact.			
INHALATION:	Irritating ot respiratory system.			
INGESTION:	Harmful if swallowed.			
ACUTE TOXICITY:				
COMPONENT NAME	CAS NUMBER	LD₅₀ Oral (mg/kg)	LD₅₀ Dermal (mg/kg)	LC₅₀ Inhalation (mg/L/4hrs)
Ethylene glycol	107-21-1	4,000-6,140 (rat)	>2,000 (rabbit)	Not available
Triethyl phosphate	78-40-0	1,310 (rat)		>2,000 (rat - 6 hrs)
Tris(2-chloro-1-methylethyl) phosphate	13674-84-5	2,800-4,200 (rat)	>5,000 (rabbit)	>4.6 (rat)
1,1,1,3,3-Pentafluoropropane	460-73-1	Not available	>2,000 (rabbit)	>1,096 (rat)
Pentamethyldipropylene- triamine	3855-32-1	788 (rat)	1,000-1,500 (rabbit)	Not available
Diethyltoluenediamine	68479-98-1	>500 (rat)	>2,000 (rabbit)	Not available
Polyether polyol	*Proprietary	2,000-5,000 (rat)	1,000-5,000 (rabbit)	Not available
POTENTIAL CHRONIC EFFECTS:				
CHRONIC EFFECTS:	No known significant effects or critical hazards.			
TARGET ORGANS:	Contains material which may cause damage to the following organs: kidneys, the nervous system, cardiovascular system, central nervous system (CNS), pancreas.			
CARCINOGENICITY:	No known significant effects or critical hazards.			
MUTAGENICITY:	No known significant effects or critical hazards.			
TERATOGENICITY:	Contains material which can cause birth defects.			
FERTILITY EFFECTS:	No known significant effects or critical hazards.			
DEVELOPMENTAL EFFECTS:	No known significant effects or critical hazards.			
MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE:	No known significant effects or critical hazards.			

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:	Ecological testing has not been conducted for this product.
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SECTION 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL:	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

PROPER SHIPPING NAME	
DOT:	Not regulated.
TDG:	Not regulated.
IMDG:	Not regulated.
IATA:	Not regulated.

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.

SECTION 15: REGULATORY INFORMATION

U.S. Federal Regulations	
TSCA 8b Inventory:	All components are listed on the TSCA inventory or are exempt.
TSCA 5a (2):	No components listed.
TSCA 5e:	No components listed.
TSCA 12b:	No components listed.
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs):	No components listed.
Clean Air Act - Ozone Depleting Substances (ODS):	This product does not contain nor is it manufactured with ozone depleting substances.
SARA 313 Form R - Reporting Requirements:	Not available.
SARA 311/312 hazard identification:	Immediate (acute) health hazard. Delayed (chronic) health hazard. Fire hazard.
CERCLA Hazardous substances:	Not available.
STATE REGULATIONS:	
PENNSYLVANIA/NEW JERSEY/ MASSACHUSETTS - RTK:	Not available.
California Prop 65:	Not available.
CANADA	
WHMIS (Canada):	Not available.
CEPA DSL:	All components are listed or exempted.
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:	
Australia inventory (AICS):	Not available.
China inventory (IECSC):	Not available.
Japan inventory:	Not available.
Korea inventory:	Not available.
New Zealand inventory of Chemicals (NZIoC):	Not available.
Phillipines inventory (PICCS):	Not available.

SECTION 16: OTHER INFORMATION

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



National Fire Protection Association (NFPA)



HEALTH	1
FLAMMABILITY	1
REACTIVITY	0
SPECIAL INFORMATION	

Hazardous Material Information System (HMIS)

HEALTH	1
FLAMMABILITY	1
REACTIVITY	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.

Date of Issue:	4/9/2018
Date of previous issue:	11/18/2016
For Your Protection:	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.
Preparation Information:	This SDS supersedes ALL previous SDS versions.