
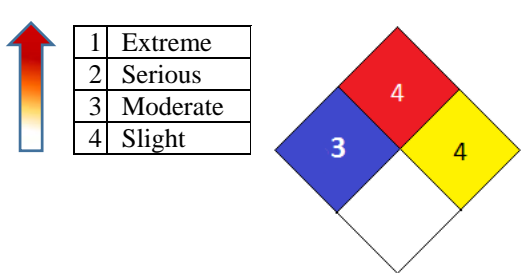



SECTION 1: IDENTIFICATION

PRODUCT NAME: HARD CAP-100™ “B” COMPONENT
 CAS NUMBER: Not available
 PRODUCT USE: Polyurea Coating
 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 CLASSIFICATION:

<p>GHS Pictogram</p> 	<p>NEW GHS SCALE</p>  <table border="1" data-bbox="893 882 1071 1008"> <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> <p>Health Flammability Reactivity Specialty Information</p>	1	Extreme	2	Serious	3	Moderate	4	Slight
1	Extreme								
2	Serious								
3	Moderate								
4	Slight								
<p>WARNING</p>	<p>Personal Protective Equipment</p> 								

EMERGENCY OVERVIEW:

HAZARD STATEMENTS

H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H320 Causes eye irritation.
 H335 May cause respiratory irritation.
 H303 May be harmful if swallowed.

PRECAUTIONARY STATEMENTS

P261 Avoid breathing dust/fume/gas/mist vapors/spray.
 P264 Wash hands thoroughly after handling.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P270 Do not eat, drink, or smoke when using this product.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing should not be allowed out of the workplace.

APPEARANCE, COLOR, ODOR:

Liquid, amber, ammoniacal odor.

USA: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
READ THE ENTIRE SDS FOR MORE THOROUGH EVALUATION OF THE HAZARDS



“Proudly Made in the USA”

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	% WEIGHT
Polyaspartic Ester	168253-59-6	50-80
Polyoxypropylenediamine	9046-10-0	10-30
Glyceryl poly(oxypropylene)triamine	64852-22-8	1-10

SECTION 4: FIRST AID MEASURES

EYE: **H320** 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.

SKIN: **H315/317** Causes skin irritation and may cause an allergic skin reaction. If on skin: wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse

INHALATION: **H335** 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.

INGESTION: **H303** May be harmful if swallowed. If swallowed: Rinse mouth. Call a poison center or doctor/physician IF you feel unwell.

NOTES TO PHYSICIAN: Symptomatic and supportive therapy as needed. Following severe exposure, medical follow-up should be monitored for 48 hours.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: Not available

HAZARDS WHEN ON FIRE OR NEAR FLAME: May produce toxic levels of ammonia, combustion products of nitrogen, carbon monoxide, and carbon dioxide. When in a closed container, pressure will increase which may lead to a rupture of the container.

SUITABLE EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, alcohol- resistant foam, or water spray (mist/fog).

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. If in a fire or heated, a pressure increase will occur and the container may burst.

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.

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 (PPE) Personal Protective Equipment. Obey all local, state, and federal regulations during clean up.

SECTION 7: HANDLING & STORAGE

GENERAL:

Ideal storage temperature is 60 – 90°F (15-32°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). Eating, drinking and smoking shall be prohibited in areas where this material is handled, stored, and processed. Workers should 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 container.

STORAGE:

Keep containers properly sealed and when stored indoors, in a dry and well-ventilated area. Keep contents away from moisture. Due to reaction with water, producing CO₂ gas, a hazardous build-up of pressure could result if contaminated containers are resealed. DO NOT reseal contaminated containers. Uncontaminated containers, free of moisture, may be resealed and stored after purging the container with argon or nitrogen gas.

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 after handling chemical products, before eating, smoking, and using the lavatory 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, mist or dusts. If contact is possible, the following protection shall 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.

HAND 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: Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as 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:	Not available
COLOR:	Amber	AUTO-IGNITION TEMP:	Not available
ODOR:	Ammoniacal	DECOMPOSITION TEMPERATURE:	Not available
ODOR THRESHOLD:	Not available	EXPLOSIVE LIMITS:	Not explosive
pH:	N/A	FLAMMABILITY:	Not available
WATER SOLUBILITY:	N/A	BOILING POINT:	Not available

PARTITION COEFFICIENT:	Not available	BOILING RANGE:	Not available
SPECIFIC GRAVITY:	0.983-1.00(g/cc) (Water=1)	MELTING/FREEZING POINT:	Not available
VISCOSITY:	600cps @ 25°C	VAPOR PRESSURE:	Not available
EVAPORATION RATE:	Not available	VAPOR DENSITY:	Not available
VOC:	Not available	RELATIVE DENSITY:	8.2-8.4 lbs./gal

SECTION 10: STABILITY & REACTIVITY

- STABILITY:** Stable when handled and stored at temperatures 60 – 90°F (15-32°C).
- INCOMPATIBILITY:** Strong reaction with isocyanates, acids, and oxidizing agents
- HAZARDOUS REACTION:** No specific data available.
- HAZARDOUS POLYMERIZATION:** Hazardous polymerization will not occur under normal conditions of storage and use.
- CONDITIONS TO AVOID:** Avoid temperatures above 100°F and freezing temperatures. Avoid moisture contamination in containers. Avoid acids and strong oxidizing agents.
- HAZARDOUS DECOMPOSITION:** Combustion of product will lead to toxic levels of ammonia. Oxides of nitrogen, carbon, aldehydes and ketones are produced.

SECTION 11: TOXICOLOGY INFORMATION

SIGNS AND SYMPTOMS OF OVEREXPOSURE/ACUTE HEALTH EFFECTS:

- EYE CONTACT:** Causes eye irritation.
- SKIN CONTACT:** Causes skin irritation and may cause an allergic skin reaction.
- INHALATION:** May cause respiratory irritation.
- INGESTION/ASPIRATION:** May be harmful if swallowed.

ACUTE TOXICITY:

COMPONENT NAME	CAS Number	LD ₅₀ Oral (mg/kg)	LD ₅₀ Dermal (mg/kg)	LC ₅₀ Inhalation (mg/m ³ /4hrs)
Polyaspartic Ester	168253-59-6	>2,000 (rat)	>2,000 (rat)	>4,224 (rat)
Polyoxypropylenediamine 2000 molecular weight	9046-10-0	480 (rat)	2,090 (rabbit)	Not available
Polyoxypropylenediamine 400 molecular weight	9046-10-0	1,100 (rat)	1,555 (rabbit)	Not available
Glyceryl poly(oxypropylene)triamine	64852-22-8	2,690 (rat)	12,500 (rabbit)	Not available

POTENTIAL CHRONIC EFFECTS:

TARGET ORGANS:	Existing respiratory/pulmonary, skin and eye conditions may be aggravated by overexposure.
CARCINOGENICITY:	As of this publication, this material is not listed on the National Toxic Program (NTP) Report of Carcinogens. Please refer to the most recent information with NTP.
MUTAGENICITY:	No known significant effects or critical hazards.
TERATOGENICITY:	No known significant effects or critical hazards.
FERTILITY EFFECT:	No known significant effects or critical hazards.
DEVLEOPMENTAL EFFECTS:	No known significant effects or critical hazards.
MEDICAL CONDITIONS AGGRAVATED BY OVER-EXPOSURE:	Existing respiratory/pulmonary, skin and eye conditions may be aggravated by overexposure.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL EFFECTS:	Based on a review of the individual components, this product may be immediately harmful to aquatic organisms may cause long-term adverse effects in the aquatic environment and not readily biodegradable.
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SECTION 13: DISPOSAL CONSIDERATION

WASTE DISPOSAL:	By-product wastes or process waste generation shall 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 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: EXPOSTURE 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 as dangerous goods
TDG:	Not regulated as dangerous goods
IMDG:	Not regulated as dangerous goods
IATA:	Not regulated as dangerous goods

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:

This material is classified as hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200)

- HCS Classification:** Toxic material.
Irritant.
- U.S. Federal regulations:** United States Inventory (TSCA 8b): All components are listed or exempted.
- TSCA 8(b)2 inventory:** No components listed.
- TSCA 5(a) 2 final significant new use rule (SNUR):** No components listed.
- TSCA 5(e) substance consent order:** No components listed.
- TSCA 12(b) export notification:** No components listed.
- SARA 311/312:** Immediate acute health hazard and chronic health hazard.
- SARA 313:** 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.
- CERCLA Hazardous substances:** No components listed.

STATE REGULATIONS:

PENNSYLVANIA, NEW JERSEY AND MASSACHUSETTS– RTK:

COMPONENT	CAS no.	CONCENTRATION
Polyaspartic ester	168253-59-6	50-80%

California Prop 65:

This product contains no listed substances known to the State of California to cause cancer, birth defects, or other reproductive harm, at levels which would require a warning under the statute.

Canada:

WHMIS (Canada):

WHMIS Class D-1A: Material causing immediate and serious toxic effects.
 WHMIS Class E: Corrosive

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):

All components are listed or exempted.

China inventory (IECSC):

All components are listed or exempted.

Japan inventory:

All components are listed or exempted.

Korea inventory:

All components are listed or exempted.

New Zealand inventory of Chemicals (NZIoC):

All components are listed or exempted.

Philippines inventory (PICCS):

All components are listed or exempted.

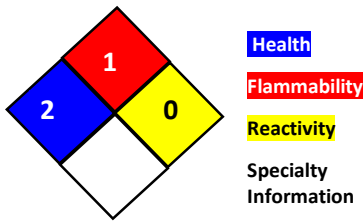
SECTION 16: OTHER INFORMATION

4	Extreme
3	Serious
2	Moderate
1	Slight
0	No Hazard



National Fire Protection Association (NFPA)

Hazardous Material Information System (HMIS)



Health	2
Flammability	1
Reactivity	0
PPE	

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: 10/22/2014

Date of previous issue:

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.