

Material Safety Data Sheet - Polyforce® Hardener A

CHEMTREC Transportation
Emergency Phone:
1 800 424 9300

Pittsburgh Poison Control
Center Health Emergency :
412-681-6669

Section 1 - Chemical Product / Company Information

Product Name: Polyforce Hardener

Identification Number: PLF_HDR 001A

Product Use/Class: Composition based on poliizocionat, modifiers and solvents. **Preparer:** Regulatory Department

Manufacturer: Polyforce International Inc.
2720 Britannia Road East, Suite 334, Mississauga, ON L5P 1A2, CANADA

Section 2 - Composition / Information On Ingredients

Chemical Name	CAS Number	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	ASHA PEL-TWA	OSHA-CEIL
Poliizocionat	Trade secret	33.0				
Modifier 1	Trade secret	20.0				
Modifier 2	Trade secret	12.0				
Low-fat solvents	Trade secret	45.0				

Section 3 - Hazards Identification

Emergency Overview: May cause skin irritation and allergic skin reactions. Contains solvents , which in free form may cause irritation of the mucous membrane or raspatory track. Solvents are mixed into the composition during production, therefore it's not in free form during application.

Effects Of Overexposure-Eye Contact: Can cause eye burns.

Effects Of Overexposure - Skin Contact: May cause allergic skin reaction and skin and eye burns.

Effects Of Overexposure - Inhalation: May cause nose and throat irritation. May cause lung irritation. May cause allergic respiratory and skin reaction.

Effects Of Overexposure - Ingestion: It may be harmful if swallowed.

Effects Of Overexposure - Chronic Hazards: Extended contact of uncured meaterial with exposed skin.

Primary Route(s) Of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Medical Conditions Prone to Aggravation by Exposure: Do not use if you have a known sensitivity to thinners. Contact your physician if the symptoms persist.

Section 4 - First Aid Measures

First Aid - Eye Contact:	Immediately flush eyes with a 2% solution of soda bicarbonate, then rinse thoroughly with running water for 15 minutes, and see a physician.
First Aid - Skin Contact:	Remove from the skin with a swab dipped in rubbing alcohol, and rinse treated area of skin with soap and water.
First Aid - Inhalation:	If inhaled, move to fresh air. Administer oxygen if necessary. Consult a physician if symptoms persist or exposure was severe.
First Aid - Ingestion:	If swallowed seek immediate medical attention.

Section 5 - Fire Fighting Measures

Flash Point:	Does not ignite below 300°C or 572F (with no open flames)
Extinguishing Media:	Carbon Dioxide, Dry Chemical, Foam, Water Fog, Sand
Unusual Fire And Explosion Hazards:	This product contains thinners and volatile components. Vapors could accumulate in confined spaces. Vapors are heavier than air and could travel long distances, ignite, and flashback. Eliminate all open flame or ignition sources. Keep away from sparks, open flames, and heat sources. Lighting system on site should be 12V and properly insulated to be nonferrous. All electrical equipment and installations should be made and grounded in accordance with the National Electrical Code. In areas where explosion hazards exist, workers should be required to use nonferrous tools and to wear conductive and non-sparking shoes.
Special Firefighting Procedures:	Evacuate hazard area of unprotected personnel. Use a NIOSH approved self-contained breathing unit and complete body protection. Cool surrounding containers with water in case of fire exposure.

Section 6 - Accidental Release Measures

Steps To Be Taken If Material Is Released Or Spilled:	Eliminate all ignition sources. Handling equipment must be grounded to prevent sparking. Evacuate the area of unprotected personnel. Wear appropriate personal protection clothing and equipment. Follow exposure controls/personal protection guidelines in Section 8. Contain and soak up residual with an absorbent (clay or sand). Take up absorbent material and seal tightly for proper disposal. Dispose in accordance with local, state and federal regulations. Refer to Section 15 for SARA Title III and CERCLA information.
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Section 7 - Handling And Storage

Handling:	Avoid breathing vapors or spray mist. Do not allow contact with eyes, skin or clothing. Keep container tightly closed when not in use. Wear personal protection equipment. Do not breathe vapors. Wash thoroughly after handling. If pouring or transferring materials, ground all containers and tools. Do not weld, heat, cut or drill on full or empty containers. Use only in accordance with Polymer application instructions, container label and Product Data Sheet.
Storage:	Keep away from heat, sparks, open flames and oxidizing agents. Keep containers closed. Store in a cool, dry place with adequate ventilation away from open flame or heating elements

Section 8 - Exposure Controls / Personal Protection

Engineering Controls:	Use explosion-proof ventilation when required to keep below health exposure guidelines and Lower Explosion Limit (LEL).
Respiratory Protection:	Use only with ventilation to keep levels below exposure guidelines listed in Section 2. User should test and monitor exposure levels to ensure they are below recommended guidelines. If not sure, or not able to monitor, use MSHA/NIOSH approved supplied air respirator. Follow all current OSHA requirements for respirator use for thinner/polymer activator containing coatings in a liquid state.
Skin Protection:	Use impervious gloves and clothing to avoid skin contact. If material penetrates to skin, change gloves and clothing and remove material from the skin following instruction in section 3. The use of protective creams may be beneficial to certain individuals. Protective creams should be applied before exposure.
Eye Protection:	Wear safety glasses with side shields or chemical goggles to avoid eye contact.
Other protective equipment:	Eye wash and safety showers should be readily available.
Hygienic Practices:	Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Use of hand cleaner is recommended. Launder contaminated clothing before reuse. Leather shoes can absorb and allow hazardous materials to pass through. Check shoes carefully before reuse.

Section 9 - Physical And Chemical Properties

Boiling Range:	110 °C or 230F	Vapor Density:	Not Determined (N/D)
Odor:	Thinners	Odor Threshold:	Not Determined (N/D)
Appearance:	Viscous light brown liquid	Evaporation Rate:	Slower Than Ether
Solubility in H2O:	Not Determined (N/D)	Specific Gravity:	0.95-0.97 gr / sm ³
Freeze Point:	Not Determined (N/D)	PH:	Less than 12
Vapor Pressure:	Not Determined (N/D)		
Physical State:	Liquid		

Section 10 - Stability And Reactivity

Conditions To Avoid:	Heat, sparks and open flames.
Incompatibility:	Avoid contact with water
Hazardous Decomposition Products:	Consider all smoke and fumes from burning material as very hazardous. Welding, cutting or abrasive grinding can create smoke and fumes. Do not breathe any fumes or smoke from these operations.
Hazardous Polymerization:	Will not occur under normal conditions.
Stability:	This product is stable under normal storage conditions.

Section 11 - Toxicological Information

Chemical Name	Toxicity
Poliizocionat	Toxic
Modifier 1	Not Toxic
Modifier 2	Not Toxic
Not oily solvents	Toxic

Section 12 - Ecological Information

Ecological Information: No data

Section 13 - Disposal Information

Disposal Information: Dispose in accordance with State, Local, and Federal Environmental regulations. Responsibility for proper waste disposal is with the owner of the waste.

Section 14 - Transportation Information

DOT Proper Shipping Name:	Not Regulated	Packing Group:	N/A
DOT Technical Name:	N/A	Hazard Subclass:	N/A
DOT Hazard Class:	None	Resp. Guide Page:	N/A
DOT UN/NA Number:	None	Additional Notes:	None

Section 15 - Regulatory Information

CERCLA - SARA HAZARD CATEGORY

This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Section 313 Substances exist in this product

TOXIC SUBSTANCES CONTROL ACT

All components of this product are listed on the TSCA inventory.

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(B) Substances exist in this product

Section 15 - Regulatory Information

U.S. STATE REGULATIONS AS FOLLOWS:

NEW JERSEY RIGHT-TO-KNOW

The following materials are non-hazardous, but are among the top five components in this product.

PENNSYLVANIA RIGHT-TO-KNOW

The following non-hazardous ingredients are present in the product at greater than 3%.

CALIFORNIA PROPOSITION 65

Warning: The following ingredients present in the product are known to the state of California to cause cancer:

<u>Chemical Name</u>	<u>CAS Number</u>
MICROCRYSTALLINE SARA	14808-60-7

Warning: The following ingredients present in the product are known to the state of California to cause birth defects, or other reproductive hazards:

No California Proposition 65 Reproductive Toxins exist

INTERNATIONAL REGULATIONS AS FOLLOWS:

CANADIAN WHMIS

This MSDS has been prepared in compliance with Controlled Product Regulations except for the use of the 16 headings.

CANADIAN WHMIS CLASS: D2B

Section 16 - Other Information

HMIS Ratings

Health: 2

Flammability: 1

Reactivity: 0

Personal Protection: X

VOLATILE ORGANIC COMPOUNDS, GR/LTR MIXED (UNTHINNED): 0

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined