

## SECTION 1 PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:** PolyPlus 35 Premium Modified Bitumen Adhesive

**Manufacturer:**

Polyglass U.S.A. Inc.  
 1111 West Newport Center Drive  
 Deerfield Beach, Florida 33442

MSDS Date of Preparation: 12/22/11

Emergency Contact: (800) 424-9300 CHEMTREC (USA)

## SECTION 2: HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

**WARNING!**

Combustible liquid and vapor. Causes eye and skin irritation. Vapors and mists may cause mucous membrane and upper respiratory tract irritation with headache, dizziness, drowsiness, nausea and unconsciousness. Prolonged and/or repeated overexposure may cause liver, kidney, and nervous system damage. This product contains a very small amount of naturally occurring crystalline silica quartz. Prolonged overexposure to respirable crystalline silica may cause lung disease (silicosis) and increase the risk of lung cancer. The silica in this product is bound in the adhesive matrix and no exposure to respirable crystalline silica occurs during normal use.

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENTS</u>	<u>CAS#</u>	<u>WT.%</u>
Mineral Spirits	8052-41-3	35-60
Asphalt	8052-42-4	15-50
	64742-93-4	
Styrene-Butadiene-Styrene Polymer	Proprietary	10-40
Attapulgite Clay	8031-18-3	10-20
Light Aromatic Solvent	64742-95-6	5-10
Cellulose	9004-34-6	1-5
Surfactant	Mixture	1-5
1,2 4 Trimethylbenzene	95-63-6	1-5
Crystalline Silica, Quartz	14808-60-7	0.1-1

## SECTION 4 FIRST AID MEASURERS

**Eyes:** Immediately flush eyes with water for at least 15 minutes while lifting the upper and lower lids. Get medical attention if irritation persists.

**Skin:** Remove contaminated clothing. Wash skin thoroughly with soap and water. If rash or irritation develops, get medical attention. Launder clothing before re-use. (Discard contaminated shoes).

**Inhalation:** Remove victim to fresh air. If breathing has stopped give artificial respiration. If breathing is difficult have qualified personnel administer oxygen. Get immediate medical attention.

**Ingestion:** If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to a person who is unconscious or convulsing. Get immediate medical attention.

## SECTION 5 FIRE FIGHTING MEASURES

**Extinguishing Media:** Use water fog, carbon dioxide, dry chemical and foam. Cool fire exposed containers with water.

**Special Firefighting Procedures:** Firefighters should wear full emergency equipment and NIOSH approved positive pressure self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses.

**Unusual Fire And Explosion Hazards:** Combustible liquid and vapor. Vapors are heavier than air and will travel along surfaces to remote ignition sources and flash back. Closed containers may explode if exposed to extreme heat.

**Hazardous Combustion Products:** Combustion products may include oxides of carbon and sulfur, hydrogen sulfide, sulfur dioxide and hydrocarbons.

## SECTION 6 ACCIDENTAL RELEASE MEASURES

**Steps to Be Taken In Case Material Is Released or Spilled:** Wear appropriate protective clothing to prevent eye and skin contact. Evacuate and ventilate area using explosion proof equipment. Remove all ignition sources such as flames, hot surfaces, pilot lights and spark producing equipment. Collect spilled material with inert material and place into a closable container for disposal. Prevent runoff to storm sewers and ditches leading to natural waterways. Report spill as required by local and federal regulations.

## SECTION 7 HANDLING and STORAGE

**Handling:** Avoid contact with the eyes, skin and clothing. Avoid breathing vapors. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Keep containers closed when not in use. Keep product away from heat, sparks, flames and all other sources of ignition. Do not permit smoking in use or storage areas.

Do not cut, drill, grind or weld on or near containers, even empty containers. Empty containers retain product residues can be hazardous. Follow all MSDS precautions when handling empty containers.

**Storage:** Store in a dry, well ventilated area away from heat, direct sunlight and all sources of ignition.

## SECTION 8 EXPOSURE CONTROLS and PERSONAL PROTECTION

### Exposure Guidelines:

INGREDIENTS	EXPOSURE LIMITS
Mineral Spirits	100 ppm TWA OSHA PEL 500 ppm TWA ACGIH TLV
Asphalt	0.5 mg/m <sup>3</sup> TWA ACGIH TLV (as asphalt fume)
Styrene-Butadiene-Styrene Polymer	None Established
Attapulgite Clay	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable dust) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
Light Aromatic Solvent	100 ppm TWA OSHA PEL 500 ppm TWA ACGIH TLV
Cellulose	5 mg/m <sup>3</sup> TWA OSHA PEL (respirable dust) 15 mg/m <sup>3</sup> TWA OSHA PEL (total dust)
1,2,4 Trimethylbenzene (as trimethylbenzenes)	25 ppm TWA ACGIH TLV



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Crystalline Silica, Quartz	10 mg/m <sup>3</sup> TWA OSHA PEL (respirable fraction) % Silica + 2 0.025 mg/m <sup>3</sup> TWA ACGIH TLV (respirable fraction)
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**Engineering Controls:** Use with adequate ventilation to maintain exposures below the occupational exposure limits. Use explosion proof equipment.

**Respiratory Protection:** If the exposure limits are exceeded a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Gloves:** Nitrile or other impervious gloves are recommended to prevent skin contact.

**Eye Protection:** Chemical safety goggles should be worn if splashing is possible.

**Other Protective Equipment:** Impervious clothing as needed to prevent contact. For operations where contact can occur, a safety shower and an eye wash facility should be available.

## SECTION 9 PHYSICAL and CHEMICAL PROPERTIES

**Appearance And Odor:** Black liquid, petroleum solvent odor

<b>Boiling Point (@ 760 mmHg):</b> 310-400°F (154-204°C)	<b>Freezing Point:</b> Not available
<b>Specific Gravity (H<sub>2</sub>O=1):</b> 0.93-1.02	<b>Vapor Pressure:</b> 2 mmHg @ 68°F
<b>VOC:</b> 320 g/L (2.6 lbs/gal) Max	<b>Vapor Density (AIR=1):</b> >1
<b>Evaporation Rate:</b> Not available	<b>Solubility In Water:</b> Insoluble
<b>pH:</b> Not available	<b>Coefficient Of Water/Oil:</b> Not available
<b>Flash Point:</b> 105°F (40.5°C)	<b>Autoignition Temperature:</b> Not applicable
<b>Flammable Limits: (vol % in air)</b>	<b>LEL – 1.1%(mineral spirits) UEL – 7.0% (light aromatic solvent)</b>

## SECTION 10 STABILITY and REACTIVITY

**Stability:** Stable under normal storage and handling conditions.

**Incompatibility:** Avoid oxidizing agents and water.

**Hazardous Decomposition Products:** Thermal decomposition may yield oxides of carbon and sulfur, metal oxides, hydrogen sulfide, sulfur dioxide and hydrocarbons.

**Hazardous Polymerization:** Will not occur.

## SECTION 11 TOXICOLOGICAL INFORMATION

**Eye:** Contact may cause irritation with redness and tearing.

**Skin:** Contact may cause irritation, drying and dermatitis.

**Inhalation:** Inhalation of vapors may cause mucous membrane and respiratory irritation and central nervous system depression with symptoms of headache, dizziness, nausea, vomiting, disorientation, stupor and unconscious. Severe overexposures may cause respiration depression and death. Hydrogen sulfide will evolve from asphalt and collect in the headspace of containers. Hydrogen sulfide is irritating to the eyes and respiratory tract at low concentrations. High concentrations of hydrogen sulfide can cause respiratory arrest and death.

**Ingestion:** Ingestion may cause mucous membrane and gastrointestinal irritation and nervous system depression with symptoms of headache, dizziness, nausea, narcosis and unconsciousness. Aspiration into the lungs during ingestion or vomiting may cause serious lung damage which may be fatal.

**Sensitization:** This product is not expected to cause sensitization.

**Chronic/Carcinogenicity:** Prolonged overexposure may cause damage to the nervous system, blood system, liver and kidneys. This product contains a very small amount of naturally occurring crystalline silica. Respirable crystalline silica is classified as a Group 1 carcinogen by IARC, and "Known to be a Human Carcinogen" by NTP. Repeated inhalation of large amounts of silica dust over an extended period of time may result in a progressive, disabling disease, silicosis. However, the crystalline silica in this product is bound in the adhesive matrix and dust exposure would not be expected. None of the other components present at 0.1% or greater are listed as a carcinogen by NTP, IARC, ACGIH or OSHA.



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**Mutagenicity:** No data available.

**Medical Conditions Aggravated By Exposure:** Employees with pre-existing skin, liver and kidney disease may be at increased risk from exposure.

**Acute Toxicity Values:**

Asphalt: Oral Rat LD50 - >5.0 g/kg; Skin Rabbit LD50 - > 2.0 g/kg

Mineral Spirits: No toxicity data available

Attapulgite Clay: No toxicity data available

Light Aromatic Solvent: Oral rat LD50>2,000 mg/kg, Skin rabbit LD50 >2,000 mg/kg

Cellulose: No toxicity data available

Surfactant: Oral rat LD50 1200 mg/kg

1, 2, 4 Trimethylbenzene: Oral rat LD50 3280 mg/kg; Skin rabbit >3160 mg/kg

## SECTION 12: ECOLOGICAL INFORMATION

No ecotoxicity data is available for this product at this time. Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

**Waste Disposal Method:** Dispose in accordance with all local, state and federal regulations.

## SECTION 14: TRANSPORT INFORMATION

If Shipped in containers 119 gallons (889 lbs) or less: Not regulated under US DOT or Canadian TDG

If Shipped in containers greater than 119 gallons (889 lbs) in US: NA1993, Combustible Liquid, n.o.s. (petroleum distillates), III

If Shipped in containers greater than 119 gallons (889 lbs) in Canada: UN1999, Tars, Liquid, 3 III

If Shipped Bulk at Elevated Temperature (above the flashpoint of 105°F (40.5°C): UN3256, Elevated Temperature Liquid, Flammable, n.o.s. (Petroleum Distillates), 3 III

## SECTION 15: REGULATORY INFORMATION

**OSHA Hazard Classification:** Combustible Liquid, Irritant, Target Organ Effects, Carcinogen.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health, Fire Hazard.

**EPA SARA 313:** This product contains the following chemicals regulated under SARA Title III, section 313:

1,2,4 Trimethylbenzene

95-63-6

1-5%

**CERCLA Hazardous Substances (Section 103)/RQ:** This product is not subject to CERCLA reporting requirements, however, oil spills are reported to the National Response Center under the Clean Water Act and many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**Toxic Substances Control Act:** All of the components of this product are listed on the TSCA inventory.

**California Proposition 65:** This product contains chemicals known to the State of California to cause cancer or reproductive toxicity.

**WHMIS Classification:** Class B Division 3 (Combustible Liquid); Class D Division 2 Subdivision A (Very Toxic Material Causing other Toxic Effects)



# Material Safety Data Sheet

This MSDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the MSDS contains all of the information required by the CPR.

## SECTION 16: OTHER INFORMATION

<b>NFPA Rating:</b>	Health = 2	Fire = 2	Instability = 0
<b>HMIS Rating:</b>	Health = 2*	Fire = 2	Reactivity = 0

**Revision Summary:** Change in format, Changes to all Sections.