

1. IDENTIFICATION

Product Name:	Agrol Platinum™
Synonyms/Generic Names:	Cardanol Mannich Polyol
Product Use:	Raw material for the manufacture of polyurethanes.
Restrictions on Use:	None known
Manufacturer:	BioBased Technologies® LLC 3333 Pinnacle Hills Parkway, Suite 400, Rogers, Arkansas 72758. Phone: (877) 476-5965, (479) 802-6475, Fax: (479) 250-9976 Website: www.biobasedtechnologies.com
In Case Of Emergency Call:	CHEMTREC (800) 424-9300 (24 Hours/Day, 7 Days/Week, US & Canada) or call (collect) at (703) 527-3887 (USA)

2. HAZARD(S) IDENTIFICATION

Please see Section 3 and 15 for country specific classification information, and Section 11 for additional details.

Hazard Classification according to 29 CFR 1910.1200

Classification of Substance or Mixture

Skin Irritation	Category 2	H315
Eye Damage	Category 1	H318
Skin Sensitization	Category 1	H317
STOT RE	Category 2	H373

Labeling

Pictograms



Signal Word

DANGER

Hazard Statements

- H315 – Causes skin irritation
- H318 – Causes serious eye damage
- H317 – May cause an allergic skin reaction
- H373 – May cause damage to organs (blood, kidneys, liver) through prolonged or repeated exposure (oral)

Precautionary Statements

Avoid breathing dust/fume/gas/mist/ vapors /spray. Wash hands thoroughly after handling. Wear protective gloves, eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs, seek medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately contact poison control/medical advice/attention. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Dispose of contents in accordance with local regulation.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient Name	CAS Number	Weight %	GHS Classification
Phenolic modified resin	Proprietary	>97	H315, H319
Cashew Nutshell liquid	8007-24-7	<2	H302, H312, H315, H318, H317
Diethanolamine	111-42-2	<1	H302, H315, H318, H373, H412

Trace impurities and additional material names not listed above may appear in Section 15 of this SDS. These materials may be listed for local "Right-To-Know" compliance and for other reasons.

4. FIRST AID MEASURES

Symptoms/Effects	
Skin:	Remove contaminated clothing. Wash with soap and water.
Eyes:	Immediately flush eyes with water while lifting the eyelids and continue for several minutes. Get medical attention if irritation develops.
Inhalation:	Move the exposed person to fresh air. If irritation persists, consult a physician.
Ingestion:	If discomfort develops, consult a physician or poison control center. Do not induce vomiting unless directed to do so by a physician.
Most Important Effects	
Acute:	May be corrosive to eyes.
Delayed:	May cause damage to kidneys, blood or liver through prolonged exposure
Advice to Physician	Product is of low toxicity. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Flammable Properties

Suitable Extinguishing Media:	Water fog, foam, dry chemical, carbon dioxide or water spray.
Unsuitable Extinguishing Media:	Avoid solid stream of water if liquid is heated to ignition. It may spread burning liquid.
Unusual Fire And Explosion Hazards:	Sealed containers can rupture violently when exposed to fire. Decomposition products may include the following materials: Carbon dioxide Carbon monoxide
Special Fire Fighting Precautions/Instructions:	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures:	Immediately contact emergency personnel. Eliminate all ignition sources. Keep unnecessary personnel away.
Personal Precautions:	Use suitable protective equipment (section 8). Follow all fire-fighting procedures (section 5). Do not touch or walk through spilled material.
Protective Equipment:	Wear suitable personal protective equipment including hand and eye/face protection and suitable clothing for the task being performed.
Environmental Precautions and Clean Up Methods:	(See Section 8 for recommended personal protective equipment.) Small spills: Soak up with absorbent material such as oil-dry or vermiculite. Place into containers but DO NOT seal them. Arrange for disposal. Large spills: Dike spill and pump into suitable containers for disposal. Do not allow to enter natural waterways or sewers. Ventilate area during cleanup.

Spills and releases may have to be reported to Federal and/or local authorities. See Section 15 regarding reporting requirements.

7. HANDLING AND STORAGE

Normal Handling:	Avoid contact with skin and eyes. Do not breathe product mists if formed. (See Section 8 for recommended personal protective equipment.)
Storage Recommendations:	Keep containers closed during storage. Store away from moisture, isocyanates and oxidizing agents. (See Section 10 for hazards associated with contamination.) Do not roll drums. Move drums with fork lifts equipped with “parrot beaks” or drum clamps. Do not store below 40 °F (4 °C) as product may solidify. Do not allow product to become contaminated with other materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations including transfer of liquids.
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Personal Protective Equipment

Skin Protection:	Wear rubber or neoprene gloves and long-sleeved shirt. A rubber apron is recommended for liquid transfer operations.
Eye Protection:	Wear safety glasses with eye-shields or chemical safety goggles. Avoid the use of contact lenses for liquid transfer and handling operation.
Respiratory Protection:	Not required for properly ventilated areas. For areas containing product mists, use an air purifying respirator equipped with an organic vapor cartridge
Additional Recommendations:	A source of running water such as a safety shower and/or eyewash station is recommended in the work area.

Exposure Guidelines

Ingredient	ACGIH TLV	OSHA PEL	Other Limit
Diethanolamine	2 mg/m ³ (Skin)	3 ppm	None established

¹ = Limit established by BioBased Technologies®.

² = Workplace Environmental Exposure Level (AIHA).

³ = Biological Exposure Index (ACGIH).

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Amber viscous liquid	
Physical State:	Liquid	
Odor:	Characteristic	
Odor Threshold:	Not Determined	
Partition Coefficient: n-octanol/water	Not Determined	
Relative Density (water = 1.0):	1.01 – 1.04 at 77 °F (25 °C)	
Solubility In Water (weight %):	Not determined	
pH:	Not Determined	
Boiling Point:	Not Determined	
Freezing Point:	Not Determined	
Viscosity	3500 – 4000 cP at 77 °F (25 °C)	
Vapor Pressure:	Not determined	
Vapor Density (air = 1.0):	Not determined	
Evaporation Rate:	Not determined	Compared To:
Flammability	Not determined	
% Volatiles:	Not determined	
Flash Point:	> 200 °F (> 93.3 °C)	
Autoignition Temperature:	Not determined	
Upper Flame Limit (volume % in air):	Not determined	
Lower Flame Limit (volume % in air):	Not determined	
Decomposition Temperature	Not determined	

10. STABILITY AND REACTIVITY

Reactivity:	Stable under normal storage conditions.
Conditions to Avoid:	Heat, flames and sparks. Take precautionary measures against static charges and avoid exposure to light.
Incompatibilities:	Acids – may react with product. Oxidizing agents – may ignite product. Isocyanates and moisture – contamination can cause a reaction and an increase in pressure. Contaminated product should never be placed in a sealed container. Never attempt to open a bulging drum. Contact BioBased Technologies® if this occurs.
Hazardous Decomposition Products:	Carbon monoxide, carbon dioxide and organic residues
Hazardous Polymerization:	Will not occur.

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11. TOXICOLOGICAL INFORMATION

Routes of Exposure	
Skin:	May cause mild irritation
Eyes:	Can cause irritation.
Inhalation:	Inhalation of product mists may be mildly irritating.
Ingestion:	Ingestion of large quantities may cause digestive distress (irritation, nausea, diarrhea)
Immediate Effects:	May cause eye irritation
Delayed Effects:	No delayed effects are known
Acute Toxicity:	Not determined
Eye Irritation:	Causes eye irritation.
Skin Irritation:	May be mildly irritating
Chronic Toxicity:	Not expected to cause chronic toxicity effects

Carcinogenicity	NTP Status	IARC Status	OSHA List
Ingredient Name			
No ingredients listed in this section	----	----	----

12. ECOLOGICAL INFORMATION

No data currently available. Avoid contact with natural waterways and soils.

13. DISPOSAL CONSIDERATIONS

RCRA

Is the unused product a RCRA hazardous waste if discarded?	No
If yes, the RCRA ID number is:	-----

The information offered in Section 13 is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

Other Disposal Considerations:	Liquid product should be incinerated in a licensed facility in accordance with local, state and federal regulations. Do not discharge to waterways or sewer systems or dispose of on the ground. Under no circumstances should a torch, welder, plasma cutter or similar tool capable of producing an arc be used on an empty container regardless of the whether the container has been rinsed or cleaned. Containers should be punctured with a non-sparking tool and disposed of in a licensed facility or landfill.
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14. TRANSPORT INFORMATION

Shipping Name:	Not Regulated for Transport (Cashew nutshell oil based polyol)
US DOT Hazard Class:	Not regulated
Canadian TDG Hazard Class:	Not regulated
IMDG Hazard Class (sea):	Not regulated
IATA Hazard Class (air):	Not regulated

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15. REGULATORY INFORMATION

Toxic Substances Control Act (TSCA)

TSCA Inventory Status:	Listed on TSCA Chemical Inventory
Listings in other TSCA Sections:	None

SARA Title III/CERCLA

"Reportable Quantities" (RQs) and/or "Threshold Planning Quantities" (TPQs) exist for the following ingredients.

Ingredient	SARA/CERCLA RQ (lb)	SARA EHS TPQ (lb)
No ingredients listed in this section.	----	----

Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center [(800) 424-8802] and to your Local Emergency Planning Committee.

SARA 311 Hazard Class: Immediate

SARA 313 Toxic Chemicals:

The following ingredients are SARA 313 "Toxic Chemicals" and may be subject to annual reporting requirements. CAS numbers and weight percents are found in Section 2.

Ingredient	Comment
No ingredients listed in this section.	


State Right-To-Know

In addition to the ingredients found in Section 3, the following are listed for state right-to-know purposes.

Ingredient	CAS #	Weight %	NJ	PA	MA
No ingredients listed in this section.					

Additional Regulatory Information:	None
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Non-US Regulatory Information.

CANADIAN REGULATIONS:		
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulation and the MSDS contains all information required by the Controlled Products Regulation.		
WHMIS Classification: (Canada)	D-2B Material causing other toxic effects (Toxic) E Corrosive	
Canadian Inventory Status (DSL)	Not Listed	

16. OTHER INFORMATION

Current Issue Date:	May 25, 2015
Previous Issue Date:	Dec 4, 2013
Changes from previous Issue Date:	New HCS2012 Compliant Format
Other Product Information:	None

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Hazard Ratings

HMIS (III)	NFPA
Health – 3	Health – 3
Flammability – 1	Flammability – 1
Physical Hazard – 0	Instability – 0

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