



[FASTAC] by Green Paving Solutions, LLC

[1] Product and Company Identification

Table with 2 columns: Field (Product Name, Material Use, MSDS#, Validation Date, Print Date, Manufacturer, Emergency Contact) and Value (Fastac Anti-Strip Agent, Asphalt Anti-Strip Agent/Adhesive Agent, AWI RA 10/13, 10/07/2013, 10/07/2013, Green Paving Solutions, LLC, 2501 Manchester Trfwy, Kansas City, MO 64129, Phone: 816.921.8200, Fax: 816.921.8251, [a] 228.918.5577 / 228.341.4047 / 228.596.0100, [b] Technical: 228.255.6555 / 228.255.6554)

[2] Hazards Identification

Table with 2 columns: Field (Physical Form, Odor, Color, Emergency Overview) and Value (Slightly Viscous but Free Flowing Liquid, Neutral to Mild and Clean, Honey Colored, Based on fully reacted Green Chemistry, is non-corrosive and without any strong odors typical of anti-strip agents as exemplified by neutral pH of 7. However, take usual safety precautions to prevent skin contact, ingestion and inhaling vapor or mist. Keep container closed when not in use, use only with adequate ventilation and wash thoroughly after handling.)

[3] Composition/Information on Ingredients

Table with 3 columns: Name, CAS#, % by Weight. Rows include Reacted Plant and Vegetable Oils (60% to 80%), Reacted/Neutralized Polyethylene Polyamines (5% to 20%), and Inert Carrier/Viscosity Agent (5% to 20%).

[4] First Aid Measures

Table with 2 columns: Field (Eye Contact, Skin Contact, Inhalation, Ingestion) and Value (Check for and remove any contact lenses. Immediately flush eyes with copious amounts of water for at least 15 minutes, occasionally lifting the upper eyelid. Get medical attention immediately. Immediately flush skin with plenty water for at least 15 minutes while removing contaminated clothing including shoes. Follow up by washing with soap and water and launder all clothing before re-use. Get medical attention if any symptoms arise and treat symptomatically. Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as collar, tie or waistband. Get medical attention immediately. Rinse out mouth with copious amounts of water. Do not induce vomiting unless directed by a physician to do so. Never give anything by mouth to an unconscious person. Get medical attention immediately.)



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[4] First Aid Measures (cont.)

Notes to Physician:	Symptomatic and supportive therapy as needed. Following severe exposure, recommended that medical follow-up should be monitored for at least 48 hours.
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[5] Fire Fighting Measures

Flash Point:	Cleveland Open Cup 210°C / 410°F
Fire Extinguishing Media:	Use dry chemical powder for small fire. Use water spray, fog or foam for large fire. Do not use water jet.
Hazardous Thermal Decomposition Products:	Carbon dioxide, carbon monoxide and nitrogen oxides.

[6] Accidental Release Measures

Small Spill or Leak:	Dilute with water and mop up or absorb with an inert dry material (eg. saw dust) and place in appropriate waste disposal container.
Large Spill or Leak:	Absorb with an inert material (eg. saw dust) and put into an appropriate waste disposal container.

[7] Handling and Storage

Handling:	Do not ingest. Do not breathe vapors or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage:	Keep container tightly closed. Store in a cool ventilated place; under shelter and away from direct sunlight and rain.

[8] Exposure Control and Personal Protection

Engineering Controls:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eye wash stations and safety showers are installed in close proximity to the work stations.
Eyes:	Safety glasses or face shield as appropriate.
Body:	Long sleeved shirt, long pants, socks and shoes. Ensure full body cover.
Respiratory:	Wear appropriate respiratory gear when ventilation is inadequate.
Hands:	Wear latex or PVC gloves.
Personal Protection:	In case of large spills: splash goggles, full suit, boots, gloves. Suggested protective clothing may not be sufficient; consult a Safety Specialist BEFORE handling the product.



[MATERIAL DATA SAFETY SHEET]

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[9] Physical and Chemical Properties

Physical State:	Slightly Viscous but Free Flowing Liquid
Color:	Honey Colored
Odor:	Neutral to Mild
pH of 5% in Distilled Water:	7-8 (ie Neutral)
Flash Point (COC):	210°C / 420°F
Density at 77°F	0.9892kg/l = 8.25 lbs/gal
Solubility	Negligible in Cold Water

[10] Stability and Reactivity

Stability and Reactivity:	The product is stable at ambient temperatures.
Incompatibility:	The product is compatible with most substances.
Hazardous Polymerization:	Will not occur.

[11] Toxicological Information

Ingredient:	Test:	Result:	Route:	Species:
Reacted Polyethylene Polyamines	LD50	>5,000mg/kg	Oral	Rat
All Other Ingredients	LD50	>5,000mg/kg	Oral	Rat
Carcinogenicity:	No know significant effects or critical hazards.			
Mutagenicity:	No know significant effects or critical hazards.			
Tetrogenicity:	No know significant effects or critical hazards.			
Fertility Effects:	No know significant effects or critical hazards.			
Development Effects:	No know significant effects or critical hazards.			

[12] Ecological Information

Ecotoxicity Ingredient:	Species:	Period, hrs:	Result:
Reacted Polyethylene Polyamines	Zebra fish based on data for similar materials, LC50	96	9828mg/l
Biodegradability and Ecotoxicity Remarks:		Proprietary Green and Natural Chemistry, greater than 85% @ 22 days CBT based on data for similar materials.	
Products of Degradation:		These are carbon dioxide, carbon monoxide and water.	



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[13] Disposal Information

Waste must be disposed of in accordance with Federal, State and Local Environmental Control Regulations. Please consult your Regional Local Authorities.

[14] Department of Transportation (DOT) Transport Information

Shipping Name:	Not regulated.
UN/UA Number:	Not regulated.
International (I.M.O.) Shipping Name:	Not regulated.
Air (I.C.A.O.) Shipping Name:	Not regulated.

[15] Regulatory Information

HCS Classification:	No known target organ effects.
US Federal Regulations:	
TSCA:	All intentionally present components are TSCA listed.
DSL:	All intentionally present components are DSL listed.
TSCA 5(a):	Two final significant rules, no products found.
CERCLA:	Hazard substances, none.
SARA 302/304/311/312:	Extremely hazardous substances, no products found.
SARA 302/304:	Emergency planning and notification, no products found.
SARA 302/304/311/312:	Hazardous chemicals, no products found.
SARA 311/312:	MSDS distribution, chemical inventory, identification: Fastac Anti-Strip
SARA 313:	Form R Reporting Requirements, no products found.
SARA 313:	Supplier Notification, no products found.
State Regulations:	California Proposition 65, no products found.

[16] Other Information

Hazard Material Information System (USA):	
Health:	1
Fire Hazard:	1
Reactivity:	1
Physical Hazards:	0