



HYDROGREEN S

1. Product and Company Identification				
PVS MERIDIAN CHEMICALS, INC. 33300 Egypt Lane, Suite J-300 Magnolia, Texas 77354 Phone: 281-210-1575 Fax: 281-210-1580	CHEMTREC (24-Hr Emergency Response):	U.S. Toll Free (800) 424-9300 International +1 (703) 527-3887		
	Poison Control	(800) 222-1222		
	Non-emergency Customer Service	(281) 210-1575		
Synonyms:	N/A			
Chemical Family:	Mixture of long chain and tricyclic organic acids, resin acids, fatty acids, sterols and esterified fatty acids			
Recommended Use:	A compaction aid and Warm-Mix additive for Hot-Mix Asphalt. Especially effective with Recycled Asphalt Pavement (RAP) and Recycled Roofing Shingles (RAS).			
HCSDS Creation Date:	September 19, 2011			
HCSDS Revision Date	January 16, 2013			
2. Hazards Identification				
HMIS Ratings (Scale of 1 to 4)	Health: 1	Fire: 1	Reactivity: 0	Special: N/A
NFPA Ratings (Scale of 1 to 4)	Health: 1	Fire: 1	Reactivity: 0	Other: N/A
Signal Word:	Warning			
EMERGENCY OVERVIEW:	A dark slightly viscous liquid (above 25°C), having a wood-like odor. When heated, molten material may cause burns.			
Potential Health Effects				
Skin Contact:	Molten material causes burns.			
Eye Contact:	May cause slight eye irritation. Molten material causes burns. Fumes from molten material may cause irritation.			
Inhalation:	Inhalation of vapor from molten material may cause slight irritation to the eyes, mucous membranes and upper respiratory tract			
Ingestion:	None identified.			
3. Composition/Information on Ingredients				
CAS Number:	Weight Percent	Ingredient Name		
Listed	20 to 40	Component A		
Listed	20 to 75	Component B		
Listed	0 to 30	Component C		
4. First Aid Measures				
Skin Contact:	Remove contaminated clothing, jewelry and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). In case of burns from hot material, cover area with sterile, dry dressing. Bandage securely, but not too tightly. Get medical attention immediately.			
Eye Contact:	Wash eyes immediately with large amounts of water or normal saline solution, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention immediately.			
Inhalation:	Remove from exposure area to fresh air immediately. If breathing has stopped, perform artificial respiration. Keep person warm and at rest.			



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	Treat symptomatically and supportively. Get medical attention immediately.
Ingestion:	If swallowed do not induce vomiting. If victim is fully conscious dilute stomach contents with large amounts of milk or water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to Physician:	N/A
5. Fire Fighting Measures	
Flash Point: (Closed cup)	>199°C (>390° F)
Extinguishing Media:	Dry chemical, carbon dioxide, and regular foam. For larger fires, use water fog or regular foam
Fire Fighting:	Avoid use of water. Move container from fire area if you can do it without risk. Avoid breathing corrosive vapors; keep upwind.
Fire and Explosion Hazard:	Emits acrid smoke and toxic fumes under fire conditions. Contact with strong oxidizers may cause fire and/or explosion.
Products of Combustion:	Thermal decomposition products may include toxic fumes including carbon monoxide and carbon dioxide. Emits acrid smoke and fumes.
6. Accidental Release Measures	
Evacuation and Safety:	Containers of this material may be hazardous when empty because they retain product residues; observe all warnings and precautions listed for the product. Total reduced sulfur compounds including hydrogen sulfide may be present in the vapor space above CTO in amounts exceeding OSHA Permissible limits.
Containment of Spill:	Do not touch spilled material. For small spills, contain with an inert material (paper towels, spill control pillows, absorbent particulate). In the event of a large spill, contain by diluting with dry sand, sorbent booms, or other absorbent material. Prevent runoff into sewers, storm drains, surface waters, and soil. Follow facility-specific procedures for spill response. Isolate spill and ventilate the area. When cleaning spill, wear appropriate personal protective equipment including splash-proof safety goggles and chemical-resistant gloves. Move containers from spill area. Keep unnecessary people away. Isolate hazard area and deny entry.
Clean-up and Disposal:	Do not dispose into the immediate environment. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.
7. Handling and Storage	
Handling:	Handle in accordance with good hygiene and safety procedures. Avoid inhalation, contact with eyes, skin or clothing.
Storage:	Keep in a tightly closed container, stored in a cool, dry, ventilated area.
8. Exposure Controls/Personal Protection	
Engineering Controls:	Provide local exhaust ventilation system.
Exposure Limits:	OSHA PEL and ACGIH TLV unknown
Personal Protective Equipment (PPE)	
Eyes:	Employee must wear chemical splash goggles or a face shield.
Hands and Feet:	Employee must wear appropriate protective gloves, such as neoprene or butyl gloves or gauntlets and oil and acid resistant safety boots.



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Body:	Employee must wear appropriate protective (oil and acid resistant) clothing		
Respiratory:	Approved respirator equipped with a canister approved for dust/mist/organic vapors/acids is recommended		
9. Physical and Chemical Properties			
Description	A dark slightly viscous liquid (above 25°C)		
Odor:	Has a wood-like odor.		
Boiling Point:	>500°F (260°C)		
Melting Point:	N/A		
Specific Gravity (H ₂ O=1):	~0.96		
pH	N/A		
Water Solubility:	Very slightly soluble		
Vapor Density (air = 1)	N/A		
Freezing Point:	Not known		
Flash Point:	>425°F (open cup)		
Lower/upper Flame Limits	Not known		
Auto-ignition Temperature:	Not known		
10. Stability and Reactivity			
Stability and Reactivity:	Stable		
Incompatibilities:	Avoid strong oxidants		
11. Toxicological Information			
Toxicity Data:	No data		
Carcinogen status	OSHA - No	NTP – Not a carcinogen	IARC - Not a carcinogen
12. Ecological Information			
No data			
13. Disposal Information			
Do not dispose into the immediate environment. Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility.			
14. Department of Transportation (DOT) Transport Information			
Shipping Name:	Not regulated by DOT as a hazardous substance		
ID Number:	N/A		
Hazard Class or Division:	N/A		
Packing Group:	N/A		
Labeling Requirements:	N/A		
Packing Authorizations:			
Exceptions:	N/A		
Non-Bulk Packing:	N/A		
Bulk Packing:	N/A		
Quantity Limitations:			
Passenger Aircraft:	N/A		
Cargo Aircraft Only:	N/A		
Vessel Stowage Requirements:	N/A		
Emergency Guide Number:	N/A		
15. Regulatory Information			
OSHA Process Safety:	Not listed		
SARA Title III:	Not listed		
TSCA Status:	All components listed		



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CERCLA:	Not listed
ENECS Status:	Not listed
California Proposition 65:	Not listed
WHMIS Classification	Not determined
16: Other Information	
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