


MERIDIAN CHEMICALS, LLC
Hazard Communication Data Sheet

CRUDE TALL OIL SDS

1. Product and Company Identification				
MERIDIAN CHEMICALS, LLC 10955 Lowell Avenue, Suite 600 Overland Park, Kansas 66210 Phone: 913-253-2260	Emergency Phone Line		CHEMTREC U.S. Toll Free: (800)-424-9300 Collect Calls Accepted: +1 (703)-527-3887	
	Poison Control		(800)-222-1222	
	Non-Emergency Customer Service		(281)-210-1575	
Trade Name	Crude Tall Oil (CTO)			
Synonyms	Tall Oil, CTO			
Chemical Family	Natural products fraction, mixture of long chain tricyclic organic acids, sterol, and fatty acids			
Recommended Use	Feedstock to fractionation process; ore floatation; drilling mud conditioner; asphalt emulsifiers and cleaners.			
Restrictions on Use	None known			
HCSDS Creation Date	September 19, 2011			
HCSDS Revision Date	April 5, 2024			
2. Hazards Identification				
HMIS Ratings (Scale of 1 to 4)	Health: 1	Fire: 1	Reactivity: 0	Other: N/A
NFPA Ratings (Scale of 1 to 4)	Health: 1	Fire: 1	Reactivity: 0	Other: N/A
Signal Word	Warning 	Causes serious eye irritation. Causes skin irritation	Eye damage/irritation Category 2A Skin corrosion/irritation Category 2A	
Other	None Known			
Precautionary Statements				
Prevention Statements	Do not get in eyes. Wear appropriate protective equipment for eye and skin exposure. Wear protective gloves.			
Response Statements	If in eyes, rinse cautiously for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye or skin irritation persist, get medical attention/advise. Take off contaminated clothing and wash before reuse. Wash thoroughly after handling.			
Primary Route(s) of exposure	Exposure can occur from contact with liquid material and from exposure to vapor from heated material.			
Target Organs	None Known			
Signs and Symptoms of Exposure	Prolonged or repeated contact may cause skin irritation. May cause eye irritation. Inhalation of vapor from molten material may cause slight irritation to the eyes, mucous membranes and upper respiratory tract. Aspiration can be a hazard if this			

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	material is swallowed. Large doses may cause nausea, vomiting, and diarrhea.		
Medical Conditions Generally Aggravated by Exposure	None known		
Carcinogen Status	Not listed		
3. Composition/Information on Ingredients			
CAS Number	EC Number	Weight Percent	Ingredient Name
8002-26-4	232-304-6	100%	Crude Tall Oil
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. 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	None		
5. Fire Fighting Measures			
Flash Point (COC)	>199°C (390°F) (Seta closed cup)		
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	None		
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			

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Evacuation and Safety	Do not touch spilled material		
Containment of Spill	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.		
Clean-up and Disposal	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.		
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. Containers of this material may be hazardous when empty because they retain product residues.; observe all warnings and precautions listed for the product.		
8. Exposure Controls/Personal Protection			
Engineering Controls	Provide local exhaust ventilation system		
Exposure Limits	OSHA ACGIH: None	PEL-TWA: None	PEL TLV – Ceiling: None
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, to prevent contact with this substance.		
Body	Employee must wear appropriate protective (oil and acid resistant clothing, oil and acid resistant safety boots, and equipment to prevent repeated or prolonged skin contact with this substance.		
Respiratory	Approved respirator equipped with a canister approved for dust/mist/organic vapors/acids is recommended.		
9. Physical and Chemical Properties			
Appearance	A light yellow to amber slightly viscous liquid		
Odor	Has a mild fatty acid odor		
Odor threshold	Not known		

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pH	Not known
Melting Point/Freezing Point	Not known
Initial Melting Point and Range	Not known
Flash Point	199°C (390°F) (Seta closed cup)
Evaporation Rate	Not known
Flammability (solid, gas)	Not known
Upper/lower flammability limits or explosive limits	Not known
Vapor Pressure	Not known
Vapor Density	Not known
Relative density	.96
Solubility(ies)	Water: 9 mg/L at 20° C.
Partition coefficient (n-octanol/water)	Not Known
Auto ignition temperature	Not Known
Decomposition temperature	Not Known
Viscosity	Not Known
10. Stability and Reactivity	
Reactivity:	
Chemical Stability	Stable. Avoid very high temperature and open flame
Possible hazardous reactions	Combustion products include carbon monoxide, carbon dioxide and smoke containing fine particles
Conditions to avoid	None Known
Incompatibilities	Strong oxidizers and chlorine
Hazardous decomposition products	Combustion products include carbon monoxide, carbon dioxide and smoke containing fine particulates.
11. Toxicological Information	
Likely Routes of Exposure	Contact
Symptoms related to the physical, chemical and toxicological characteristics	Prolonged or repeated contact may cause skin irritation. May cause eye irritation. Inhalation of vapor from molten material may cause slight irritation to the eyes, mucous membranes and upper respiratory tract. Aspiration can be a hazard if this material is swallowed. Large doses may cause nausea, vomiting and diarrhea
Delayed and immediate effects and also chronic effects from short and long-term exposure	Not Known
Numerical measures of toxicity	Oral, rat: LD ₅₀ > 5,000 mg/Kg

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Carcinogen status	OSHA – Not Listed	NTP – Not Listed	IARC – Not Listed
12. Ecological Information			
<p>Octanol/Water Partition Coefficient: At a pH of 2, the log P_{ow} values of eight components of tall oil were 6.1; 6.5; 7.0; 7.4; 7.6; 7.8; 8.1; and 8.2. At a pH of 7.5, the Log K_{ow} values of five components in Tall Oil were 3.5; 4.2; 4.5; 4.7; and 5.4. The Tall Oil Biodegradation Value was 43% after seven days and 60% after 28 days of the theoretical oxygen demand. Tall Oil is a readily biodegradable mixture. For fathead minnows, the 96 hour LL₅₀ was >1,000 mg/L and the NOELr was 1,000 mg/L. For Daphnia magna, the 48 hour EL₅₀ was >1000 mg/L and the NOELr was 1,000 mg/L. For Selenastrum sp. the 72 hour NOELr was 1,000 mg/L.</p>			
13. Disposal Information			
<p>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.</p>			
14. Department of Transportation (DOT) Transport Information			
UN Number	Not regulated by DOT as a hazardous substance		
UN proper shipping name	N/A		
Transport Hazard Class(es)	N/A		
Packing Group	N/A		
Environmental hazard(s)	N/A		
Transport in Bulk	N/A		
Special Precautions	N/A		
15. Regulatory Information			
OSHA Process Safety	No		
SARA Title III	Not listed		
TSCA Status	All components listed		
CERCLA	Not listed		
EINECS Status	Not listed		
California Proposition 65	Not listed		
WHMIS Classification	Not determined		
16. Other Information			
<p>This HCSDS is furnished independent of product sale. Every effort was made to accurately describe this product. However, some of the data are obtained from sources beyond Meridian Chemicals, LLC direct supervision. We cannot make any assertions as to its reliability or completeness. Therefore, the user may rely on it only at user's risk. We have made no effort to censor deleterious aspects of this product. Since Meridian Chemicals, LLC cannot anticipate or control the conditions under which this information and product may be used, we make no</p>			

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guarantee that the precautions we have suggested will be adequate for all individuals and/or situations. It is the obligation of each user of this product to comply with the requirements of all applicable laws regarding the use and disposal of this product. Additional information will be furnished upon request to assist the user; however, no warranty, either expressed or implied, nor liability of any nature with respect to this product or to the data herein is made or incurred hereunder.

Revision History: April 5, 2024

Created: September 19, 2011