

CTO SDS

1. Product and Company Identification				
MERIDIAN CHEMICALS, LLC 10955 Lowell Suite 600 Overland Park, Kansas 66210 Phone: 913-253-2220 Fax: 913-253-2221	CHEMTREC (24-Hr Emergency Response):	U.S. Toll Free (800) 424-9300 +1(703) 527-3887 (Collect Calls Accepted)		
	Poison Control	(800) 222-1222		
	Non-emergency Customer Service	(281) 210-1575		
Trade Name (As Labeled)	CTO SDS			
Synonyms:	Crude Tall Oil, Tallol, Liquid Rosin, Acintol C			
Chemical Family:	Natural products fraction, mixture of long chain and tricyclic organic acids, sterols and fatty acids			
Recommended Use:	Feedstock to a fractionation process; ore flotation; drilling mud conditioner; asphalt emulsifiers and cleaners. None known			
Restrictions on Use:	September 19, 2011			
HCSDS Creation Date:	August 20, 2019			
HCSDS Revision Date:				
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 2	
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 advice/attention. 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 material is swallowed. Large doses may cause nausea, vomiting and diarrhea.			
Medical Conditions Generally Aggravated by Exposure	None Known			

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Carcinogen Status		Not listed	
3. Composition/Information on Ingredients			
CAS Number:	EC Number	Weight Percent	Ingredient Name
8002-26-4	232-304-6	100%	CTO SDS
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			
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	

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	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:	<table border="1"> <tr> <td>OSHA ACGIH: None</td> <td>PEL-TWA: None</td> <td>PEL TLV – Ceiling: None</td> </tr> </table>	OSHA ACGIH: None	PEL-TWA: None	PEL TLV – Ceiling: None
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			
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	0.96			
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			

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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 particulates.		
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.		
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 in 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 >1,000 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			
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.			
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		

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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 or conceal 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 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.</p>	
Revision History: August 20, 2019	Created: September 19, 2011