

**CHEMTRADE**

PULP CHEMICALS

MATERIAL SAFETY DATA SHEET**SECTION 1 – PRODUCT IDENTIFICATION AND USE**

PRODUCT IDENTIFIER Crude Tall Oil J-29		CAS REGISTRY NO. 8002-26-4	
PRODUCT USE Feedstock for tall oil refineries			
MANUFACTURER'S NAME Chemtrade Pulp Chemicals LP		SUPPLIER'S NAME Chemtrade Pulp Chemicals LP	
STREET ADDRESS 2711 Pulpmill Road		STREET ADDRESS 2711 Pulpmill Road	
CITY Prince George	PROVINCE BC	CITY Prince George	PROVINCE BC
POSTAL CODE V2N 2S6	EMERGENCY TELEPHONE NO. (250) 563-4206 or CANUTEC (613) 996-6666	POSTAL CODE V2N 2S6	EMERGENCY TELEPHONE NO. (250) 563-4206 or CANUTEC (613) 996-6666

SECTION 2- HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LD50 OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LC50 OF INGREDIENT (SPECIFIC SPECIES)
Fatty acids (e.g., Oleic)	35 – 45	61790 – 12 – 3	74 g/Kg (rat, oral)	5 – 10 mg/L, 96 hr (rainbow trout)
Rosin acids (e.g., Abietic)	20 - 30	8050 – 09 – 7	2.5 g/Kg (mouse, oral)	0.7 – 1.5 mg/L, 96 hr (rainbow trout)
Unsaponifiables / Neutrals (e.g., β -sitosterol)	30 – 40	8016 – 81 – 7	Not available	Not available

SECTION 3 – PHYSICAL DATA

PHYSICAL STATE Viscous Liquid	ODOUR AND APPEARANCE Distinctive odour, brown colour, viscous		ODOUR THRESHOLD (PPM) Not available	
SPECIFIC GRAVITY 0.97	VAPOUR DENSITY (AIR = 1) Not available	VAPOUR PRESSURE (mm Hg) < 1	EVAPORATION RATE Not available	
BOILING POINT (°C) > 250	FREEZING POINT(°C) Not Available	pH 2 - 4	COEFF. OF WATER/OIL DIST. Insoluble in Water	Not Volatile

SECTION 4 – FIRE AND EXPLOSION HAZARD

FLAMMABILITY YES [X] NO []	IF YES, UNDER WHAT CONDITIONS? Combustible if exposed to high heat and open flames, i.e., similar to other high boiling organic compounds.	
MEANS OF EXTINCTION	Use foam, dry chemical or carbon dioxide to extinguish. Water might be ineffective but could be used to cool fire exposed containers.	
FLASHPOINT (°C) AND METHOD 195 (ASTM D93)	UPPER FLAMMABLE LIMIT (% BY VOLUME) Not available	LOWER FLAMMABLE LIMIT (% BY VOLUME) Not available
AUTOIGNITION TEMPERATURE (°C) Not available	HAZARDOUS COMBUSTION PRODUCTS Carbon dioxide	
SENSITIVITY TO IMPACT None	SENSITIVITY TO STATIC DISCHARGE None	

**MATERIAL SAFETY DATA SHEET****SECTION 5 – REACTIVITY DATA**

CHEMICAL STABILITY YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>	IF NO, UNDER WHAT CONDITIONS? Stable at ambient condition
INCOMPATIBILITY WITH OTHER SUBSTANCES YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>	IF YES, WHICH ONES?
CONDITIONS OF REACTIVITY Can react with oxidizing materials.	HAZARDOUS DECOMPOSITION PRODUCTS When heated to decomposition, it emits light smoke and mildly irritating vapour.

SECTION 6 – TOXICOLOGICAL PROPERTIES

ROUTES OF ENTRY SKIN CONTACT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	SKIN ABSORPTION	SKIN ABSORPTION	EYE CONTACT	INHALATION	INGESTION
EFFECTS OF ACUTE EXPOSURE SKIN / EYE CONTACT : Irritation INGESTION : Nausea, vomiting, diarrhea, shallow respiration, unconsciousness					
EFFECTS OF CRONIC EXPOSURE May cause allergenic sensitization					
EXPOSURE LIMITS Not listed by NIOSH	IRRITANCY OF PRODUCT Not available	SENSITIVITY TO PRODUCT Not available	CARCINOGENICITY Not listed by IARC		
TERATOGENICITY Not available	REPRODUCTIVE TOXICITY Not available	MUTAGENICITY Not available	SYNERGISTIC PRODUCTS Not available		

SECTION 7 – PREVENTENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT		
GLOVES (SPECIFY) Rubber gloves	RESPIRATOR (SPECIFY) Organic canister	EYE(SPECIFY) Safety goggles or face shield if splash hazard present
FOOTWEAR (SPECIFY) Rubber boots	CLOTHING (SPECIFY) No specific requirement	OTHER (SPECIFY) Safety shower and / or eye wash station
ENGINEERING CONTROLS (SPECIFY) VENTING: Open (flame arrester) INERT ATMOSPHERE : Not required		
LEAK AND SPILL PROCEDURE Mix with inert absorbent material, sweep up and place in containers for proper disposal.		
WASTE DISPOSAL Incineration is an acceptable waste disposal method.		
HANDLING PROCEDURES AND EQUIPMENT Avoid contact with eyes and skin. Exercise usual safety precautions when handling hot product.		
STORAGE REQUIREMENTS Tank, piping and pumps should be stainless steel or aluminum. Keep away from heat and open flames. Do not store near oxidizing materials.		
SPECIAL SHIPPING INFORMATION Tank cars and storage tanks should be equipped with steam coils.		



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SECTION 8 – FIRST AID MEASURES

SPECIFIC MEASURES

EYE CONTACT:	Flush eyes with plenty of low pressure running water for at least 20 minutes. Seek immediate medical attention.
SKIN CONTACT:	Remove contaminated clothing. Wash affected area with soap and plenty of water. Seek medical attention if irritation persists.
INGESTION:	Give plenty of water to conscious victim to drink to induce vomiting. Get immediate medical attention.
INHALATION:	Remove victim to fresh air. If not breathing, give artificial respiration. If laboured, give oxygen. Get immediate medical attention.

SECTION 9 – PREPARATION INFORMATION

DATE PREPARED	LAST REVISED	PREPARED BY	PHONE NUMBER
May 1, 1993	April 16, 2005	Anna Heitman	(250) 565-8719
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