

Material Safety Data Sheet

Section 1. Product and Company Identification

Common Name	NC 254	Code Not available
Product type	Paste flux (No Clean)	Validation Date 2004-11-11 Version number 5
Synonym	Not available.	
Material Uses	Not available.	
Supplier	AIM	In Case of INFOTRAC
Manufacturer	AIM	Emergency (North America): (800) 535-5053 (International): (352) 323-3500

Section 2. Hazardous Components			
Name	CAS #	% by Weight	Toxicity Data (<i>LC50/LD50</i> , <i>TLV</i>)
1) M-pyrrol	872-50-4	5 - 15	ORAL (LD50): Acute: 5130 mg/kg [Mouse]. 3914 mg/kg [Rat].
2) Alkyl-dialcohol (C2-C8)	94-96-2	10 - 15	ORAĽ (LD50): Acute: 1400 mg/kg [Rat]. 2600 mg/kg [Rabbit]. 1900 mg/kg [Mouse].
3) Hydrogenated rosin	65997-06-0	40 - 45	ORAL (LD50): Acute: 8400 mg/kg [Rat]. 5000 mg/kg [Guinea pig].
4) Rosin	8050-09-7	5 - 10	Not available.

Section 3. Hazards Identification		
Physical State and Appearance	Liquid. (Pasty.)	
Emergency Overview	WARNING!!	
	Keep away from heat, sparks and flame. Avoid contact with eyes DO NOT ingest. Do not breathe vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.	
Routes of Entry	Inhalation. Ingestion.	
Potential Acute Health Effects	S .	
Eyes	This product may be hazardous in case of eye contact (irritant).	
Skin	This product may be hazardous in case of skin contact (irritant, sensitizer).	
Inhalation	Fumes and/or dusts produced by this product may be hazardous in case of inhalation. May be fatal if inhaled.	
Ingestion	Fumes and/or dusts produced by this product may be hazardous in case of ingestion. May be fatal if swallowed.	
Potential Chronic Health Effects	Chronic effects: Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). As shipped, this product is not hazardous in case of skin contact (permeator). Non-corrosive for skin.	
Medical Conditions Aggravated by Overexposure	Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs.	
Overexposure /Signs/Symptoms	Not available.	
See Toxicological Information	n (section 11)	

Section 4. First Aid Measures		
Eye Contact	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.	
Skin Contact	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.	
Hazardous Skin Contact	Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.	
Inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen Get medical attention immediately.	
Hazardous Inhalation	Not available.	
Ingestion	If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately.	
Hazardous Ingestion	Not available.	
Notes to Physician	Not available.	

Section 5. Fire Fighting Measures		
Flammability of the Product	Combustible.	
Auto-Ignition Temperature	Not available	
Flash Points	The lowest known value is CLOSED CUP: 92.8°C (199°F). OPEN CUP: 96°C (204.8°F).	
Flammable Limits	Not available	
Products of Combustion	These products are carbon oxides (CO, CO2), nitrogen oxides (NO, NO2).	
Fire Hazards in Presence of Various Substances	Combustible in presence of open flames and sparks.	
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.	
Fire Fighting Media and Instructions	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.	
Protective Clothing (Fire)	Be sure to use an approved/certified respirator or equivalent.	
Special Remarks on Fire Hazards	Combustible. (M-pyrrol)	
Special Remarks on Explosion Hazards	No additional remark.	

Section 6. Accidental Release Measures		
Small Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.	
Large Spill and Leak	No specific data for spill and leak according to our database.	

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Section 7. Handling ar	nd Storage		
	Keep away from heat, sparks and flame. Ke To avoid fire, minimize ignition sources.	ep contair	ner closed. Use only with adequate ventilation.
	Keep container in a cool, well-ventilated area use. Avoid all possible sources of ignition (sp		ontainer tightly closed and sealed until ready for e).
Section 8. Exposure C	Controls, Personal Protection		
	Provide exhaust ventilation or other engineer below their respective threshold limit value. proximal to the work-station location.	ing controls Ensure th	s to keep the airborne concentrations of vapors hat eyewash stations and safety showers are
Personal Protection			
Eyes	Splash goggles.		
Body	Lab coat.		
	Vapor respirator. Be sure to use an approved respirator when ventilation is inadequate.	/certified re	espirator or equivalent. Wear appropriate
Hands	Gloves.		
Feet	Not applicable.		
* <u>Note:</u> Suggested protective	e clothing may not be adequate for a specif	ic process	. Consult a specialist before using.
of a Large Spill		product.	Gloves. A self contained breathing apparatus Suggested protective clothing might not be duct.
Product Name	Exposure Limits		
1) M-pyrrol 2) Rosin, hydrogenated 3) Alkyl-dialcohol (C2-C8) 4) ROSIN	Not available. Not available. Not available. Not available.		
Consult local authorities for ac	cceptable exposure limits.		
Section 9. Physical an	nd Chemical Properties		
Physical State and Appearance	Liquid. (Pasty.)	Odor	Typical rosin. (Slight.)

Taste

Color

Not applicable.

Yellowish. (Light.)

Specific Gravity Weighted average: 1.03 (Water = 1)

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Molecular Weight

Chemical formula

2.3.13)

pH (1% Soln/Water)

Acid Value (IPC TM-650,

Boiling/Condensation Point

Melting/Freezing Point

Critical Temperature

Vapor Pressure

Vapor Density

Odor Threshold

Volatility

Not applicable.

Not applicable.

Not available.

Not available.

Not available.

Not available.

Weighted average: 295.38°C (563.7°F)

Weighted average: -12.16°C (10.1°F)

Weighted average: 0 kPa (@ 20°C)

Weighted average: 2.69 (Air =1)

Acidic.

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Not available.	
Not available	
Not available.	
Not available.	
Not available.	
Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether.	
Soluble in diethyl ether. Partially soluble in methanol. Insoluble in cold water, hot water.	
	Not available Not available. Not available. Not available. Is not dispersed in cold water, hot water. See solubility in methanol, diethyl ether. Soluble in diethyl ether. Partially soluble in methanol.

Section 10. Stability and Reactivity		
Stability and Reactivity	The product is stable.	
Conditions of Instability	Stable in normal conditions.	
Incompatibility with Various Substances	Very slightly reactive with oxidizing agents, reducing agents.	
Hazardous Decomposition Products	Not available.	
Hazardous Polymerization	Will not occur.	
Corrosivity	Very slightly corrosive in presence of copper. Non-corrosive in presence of glass.	
Special Remarks on Corrosivity	Not available.	

Section 11	. Toxicological	Information
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Toxic and Chronic Effects on Humans	Fumes and/or dusts produced by this product may be hazardous in case of ingestion, of inhalation. This product may be hazardous in case of skin contact (irritant, sensitizer), of eye contact (irritant). As shipped, this product is not hazardous in case of skin contact (permeator). Non-corrosive for skin. CARCINOGENIC EFFECTS : Classified NONE by NIOSH [M-pyrrol]. Classified NONE by NIOSH [Alkyl-dialcohol (C2-C8)]. Classified 4 (Probably not for human) by IARC, 4 (No evidence.) by NTP, NONE by OSHA [Hydrogenated rosin]. MUTAGENIC EFFECTS Not available. TERATOGENIC EFFECTS Not available. DEVELOPMENTAL TOXICITY Not toxic. The product may be toxic to upper respiratory tract, eye, lens or cornea, thyroid. Repeated or prolonged exposure to the substance can produce target organs damage. Repeated exposure to toxic material may produce general deterioration of health by an accumulation in one or many human organs.
Toxicity to Animals	No specific information is available in our data base regarding the toxicity to animals.
Special Remarks on Chronic Effects on Humans	Dust may cause eye irritation.
Special Remarks on Other Toxic Effects on Humans	Inhalation of smoke and fumes, at high temperatures, may cause an asthmatic reaction in some individuals. Prolonged and repeated contact with bare skin may cause irritation or dermatitis.
Special Remarks on Toxicity to Animals	If this product is heated to temperatures sufficient to produce smoke or fumes, TLV-TWA mentionned should be observed.

Section 12. Ecological Information		
Ecotoxicity	Not available.	
BOD5 and COD	Not available.	
Biodegradable/OECD	Not available.	
Mobility	Not available.	
	Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.	
Toxicity of the Products of Biodegradation	The products of degradation are less toxic than the product itself.	
Special Remarks on the Products of Biodegradation	Not available.	

Section 13. Disposal Considerations

Waste Information Waste Stream	Waste must be disposed of in accordance with federal, state and local environmental control regulations.	
Waste Stream	Not available.	
Consult your local or regional authorities.		

Section 14. Transport Information

Section 14. Transport mormation			
DOT Classification	Not a DOT controlled material (United States).		
	Not regulated		
Special Provisions for Transport	Not applicable.		
Special Provisions for Transport			
IMO/IMDG Classification	Not controlled under IMDG.		
Marine Pollutant	Not available.		
ADR/RID Classification	Not controlled under ADR (Europe).	I	
ICAO/IATA Classification	Not controlled under IATA.		

Section 15. Regulatory Information

HCS Classification	Class: Irritating substance. Class: Sensitizing substance. Class: Target organ effects. Class: Combustible liquid having a flash point between 37.8°C (100°F) and 93.3°C (200°F).
U.S. Federal Regulations	TSCA 4(a) final test rules: M-pyrrol- TSCA 5(e) substance consent order: M-pyrrol- TSCA 8(a) IUR: M-pyrrol- TSCA inventory: M-pyrrol-; Alkyl-dialcohol (C2-C8; Hydrogenated rosin; Rosin TSCA 12(b) one time export: M-pyrrol

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	SARA 302/304 emergency planning ar SARA 302/304/311/312 hazardous che SARA 311/312 MSDS distribution - che health hazard, delayed health hazard; hazard; Rosin: immediate health hazard SARA 313 toxic chemical notification a Clean water act (CWA) 307: No produc Clean water act (CWA) 311: No produc Clean air act (CAA) 112 accidental rela Clean air act (CAA) 112 regulated flam	nd release reporting: M-pyrrol: 1% cts were found.	
State Regulations	Pennsylvania RTK: M-pyrrol: (generic environmental hazard) Florida: M-pyrrol Minnesota: M-pyrrol; Rosin Massachusetts RTK: M-pyrrol California prop. 65: No products were found.		
International Regulations			
EINECS	Not available.		
DSCL (EEC)	36/38- Irritating to eyes and skin. 42/43- May cause sensitization by inhalation and skin contact.		
International Lists	Australia (NICNAS): All components Korea (TCCL): All components Philippines (RA6969): All components		
Section 16. Other Inf	ormation		
Hazardous Material Information System (U.S.A.)	Health*2NationalFire Hazard11Reactivity0Personal Protectionh	Fire Hezerd	
CON TRA MAY MAY CON	MFUL IF INHALED OR SWALLOWED. TAINS MATERIAL WHICH CAUSES CT, CRYSTALLINE LENS OR CORNEA CAUSE EYE AND SKIN IRRITATION. CAUSE RESPIRATORY AND SKIN RE BUSTIBLE LIQUID AND VAPOR. DR MAY CAUSE FIRE.	·	
References -CHI	MTOX database		

Other Special Considerations	-ALL COMPONENTS WITH SUSCEPTIBLE HAZARDS THAT ARE PRESENT IN A CONCENTRATION GREATER THAN 1 % (GREATER THAN 0.1 % FOR CARCINOGENS) HAVE BEEN DISCLOSED IN THIS SAFETY DOCUMENT.
	SAFETY DOCUMENT.

Document Modifications

Validated by R. Richard on 2004-11-11.

Verified by R. Richard. Printed 2004-11-11.

Information/Contact	AIM	
	25 Kenney Drive	e, Rhode Island, USA, 02920
	(401) 463-5605	(800) CALL AIM

Notice to Reader

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