

# Material Safety Data Sheet

MSDS# J00530802\_06202005

## Section 1. Chemical Product and Company Identification

<b>Product name</b>	<b>JACAAB-ETHOFAT 242/25</b>	
<b>Material Uses</b>	: Surfactant.	<b>In Case of Emergency</b>
<b>Supplier/ Repackager</b>	JACAAB LLC 4155 Manchester Avenue St. Louis, MO 63110	CHEMTREC: 800-424-9300  Information: 314-533-4662

## Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight
Tall oil, ethoxylated	65071-95-6	98-100
Tall oil	8002-26-4	0.001-1

## Section 3. Hazards Identification

<b>Physical State</b>	Liquid.
<b>Color</b>	Amber.
<b>Odor</b>	Bland. (Slight.)
<b>Emergency Overview</b>	No specific hazard.
<b>Possible Carcinogenic Effects</b>	<b>Tall oil, ethoxylated:</b> IARC, NTP, OSHA, ACGIH: Not listed. <b>Tall oil:</b> IARC, NTP, OSHA, ACGIH: Not listed.
<b>Routes of Entry</b>	Absorbed through skin. Eye contact.

See Toxicological Information (section 11)

## Section 4. First Aid Measures

<b>Eye Contact</b>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation develops. Cold water may be used.
<b>Inhalation</b>	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
<b>Ingestion</b>	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 if symptoms appear.
<b>Medical Conditions Aggravated by Overexposure</b>	Repeated or prolonged exposure is not known to aggravate medical condition.

Continued on Next Page

## Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Flash Points</b>	Closed cup: 274°C (525.2°F). (Pensky-Martens.)
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ).
<b>Fire Fighting Media and Instructions</b>	SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
<b>Protective Clothing (Fire)</b>	Be sure to use an approved/certified respirator or equivalent.

## Section 6. Accidental Release Measures

<b>Small Spill and Leak</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: <b>Use suitable protective equipment (Section 8)</b> . Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
<b>Large Spill and Leak</b>	Absorb with an inert material and put the spilled material in an appropriate waste disposal. <b>Use suitable protective equipment (Section 8)</b> . Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## Section 7. Handling and Storage

<b>Handling</b>	Avoid breathing vapors or spray mists.
<b>Storage</b>	Keep container tightly closed. Keep container in a cool, well-ventilated area.

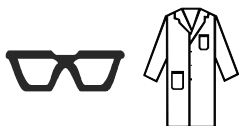
## Section 8. Exposure Controls, Personal Protection

<b>Engineering Controls</b>	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work-station location.
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### Personal Protection

<b>Eyes</b>	Safety glasses.
<b>Body</b>	Lab coat.
<b>Respiratory</b>	Not applicable.
<b>Hands</b>	Not applicable.
<b>Feet</b>	Not applicable.

### Protective Clothing (Pictograms)



<b>Personal Protection in Case of a Large Spill</b>	Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.
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### Ingredient Name

Tall oil, ethoxylated  
Tall oil

### Exposure Limits United States

Not available.  
Not available.

## Section 9. Physical and Chemical Properties

<b>Physical State</b>	Liquid.
<b>Color</b>	Amber.
<b>Odor</b>	Bland. (Slight.)
<b>Molecular Weight</b>	Not applicable.
<b>Molecular Formula</b>	Not applicable.
<b>pH</b>	Acidic.
<b>Boiling/Condensation Point</b>	300°C (572°F)
<b>Melting/Freezing Point</b>	10°C (50°F)
<b>Density</b>	Not available.
<b>Vapor Pressure</b>	<0.01 kPa (<0.1 mmHg) (at 20°C)
<b>Evaporation Rate</b>	<1 compared to Butyl acetate.
<b>Solubility</b>	Soluble in cold water.
<b>Dispersion Properties</b>	Surface Tension dynes/cm = 42 @ 0.1%; 41 @ 1.0%.

## Section 10. Stability and Reactivity

<b>Stability and Reactivity</b>	The product is stable.
<b>Incompatibility with Various Substances</b>	Reactive with oxidizing agents, alkalis.
<b>Hazardous Polymerization</b>	Will not occur.

## Section 11. Toxicological Information

### Toxicity to Animals

Ingredient Name or Product name	Test	Result	Route	Species
Tall oil, ethoxylated	LD50	>5000 mg/kg	Oral	Rat
Tall oil	LD50	>4640 mg/kg	Oral	Rat
	LD50	>4640 mg/kg	Dermal	Rat

<b>Acute Effects Skin</b>	Non-irritating to the skin.
<b>Acute Effects Eyes</b>	Non-irritating to the eyes.
<b>Special Remarks on Other Toxic Effects on Humans</b>	: Skin and Eyes based on data for: (similar material)

## Section 12. Ecological Information

**Products of Degradation** These products are carbon oxides (CO, CO<sub>2</sub>) and water.

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## Section 13. Disposal Considerations

### Waste Information

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Consult your local or regional authorities.

## Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
<b>DOT Classification</b>	Not regulated.	-	-			-
<b>TDG Classification</b>	Not regulated.	-	-			-
<b>IMDG Class</b>	Not regulated.	-	-			-
<b>IATA-DGR Class</b>	Not regulated.	-	-			-

## Section 15. Regulatory Information

### HCS Classification

Not controlled under the HCS (United States).

### U.S. Federal Regulations

TSCA: All intentionally present components are listed on the TSCA inventory.

DSL: All intentionally present components are listed on the DSL.

CERCLA: Hazardous substances.: No products were found.

SARA 302/304/311/312 extremely hazardous substances: No products were found.

SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: No products were found.

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: No products were found.

SARA 313 Form R Reporting Requirements

No products were found.

SARA 313 Supplier Notification

No products were found.

### Other Regulations

Not applicable.

### State Regulations

No products were found.

California prop. 65: No products were found.

### WHMIS (Canada)

Not controlled under WHMIS (Canada).

CEPA DSL: Tall oil, ethoxylated; Tall oil

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	Component	EC Number	EC Status	EC Annex
<b>European Union</b>	Tall oil, ethoxylated Tall oil	Not available. 232-304-6	Not available. Not available.	Not available. Not available.
<b>Other International Lists</b>	Australia (NICNAS): Tall oil, ethoxylated; Tall oil  Japan (MITI): Tall oil  Korea (TCCL): Tall oil, ethoxylated; Tall oil  Philippines (RA6969): Tall oil			

## Section 16. Other Information

### Hazardous Material Information System (U.S.A.)

Health	0
Fire Hazard	1
Reactivity	0
Personal Protection	A

### National Fire Protection Association (U.S.A.)



Validation Date  
Phone Number

6/20/2005  
314-533-4662

### Notice to Reader

The information in the material safety data sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product and/or suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication. However, no warranty is made as to the accuracy of and/or sufficiency of such information and/or suggestions or as to the product's merchantability or fitness for any particular purpose, or that any suggested use will not infringe any patent. Nothing contained herein shall be construed as granting or extending any license under any patent. Buyer must determine for himself, by preliminary tests or otherwise, the suitability of this product for his purposes, including mixing with other products. The information contained herein supersedes all previously issued bulletins on the subject matter covered. If the date on this document is more than three years old, call to make certain that this sheet is current.