



UNIVAR

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For Emergency Assistance involving chemicals call - CHEMTREC (800) 424-9300

The Version Date and Number for this MSDS is : 11/09/2007 - #005

PRODUCT NAME: PAMAK 4A TALL OIL FATTY ACID
 MSDS NUMBER: 41022
 DATE ISSUED: 08/22/2006
 SUPERSEDES: 05/04/2004
 ISSUED BY: 009292

MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	PAMAK(TM) 4A TALL OIL FATTY ACID
Product Identification Number(s)	P7546500
Manufacturer/Supplier	Eastman Chemical Resins Inc. 200 South Wilcox Drive Kingsport, TN 37660-5280 US +14232292000
MSDS Prepared by	Eastman Product Safety and Health
Chemical Name	tall-oil fatty acids
Synonym(s)	75465-00 800495
Molecular Formula	not applicable
Molecular Weight	not applicable
Product Use	chemical intermediate, emulsifier, coatings
OSHA Status	non-hazardous

For emergency health, safety & environmental information, call 800-EASTMAN.

For emergency transportation information, call CHEMTREC at 800-424-9300 or call 800-EASTMAN.

2. COMPOSITION INFORMATION ON INGREDIENTS

(Typical composition is given, and it may vary. A certificate of analysis can be provided, if available.)

Weight %	Component	CAS Registry No.
100%	tall-oil fatty acids	61790-12-3

3. HAZARDS IDENTIFICATION

LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL

HMIS Hazard Ratings: Health - 1, Flammability -1, Chemical Reactivity - 0

HMIS rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this MSDS must be considered.

4. FIRST-AID MEASURES

Inhalation: If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Eyes: Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention if symptoms occur.

Skin: Wash with soap and water. Get medical attention if symptoms occur.

Ingestion: Seek medical advice.

5. FIRE FIGHTING MEASURES

Extinguishing Media: water spray, dry chemical, carbon dioxide, foam

Special Fire-Fighting Procedures: Wear self-contained breathing apparatus and protective clothing.

Hazardous Combustion Products: carbon dioxide, carbon monoxide

6. ACCIDENTAL RELEASE MEASURES

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

For Large Spills: Flush spill area with water spray. Prevent runoff from entering drains, sewers, or streams.

7. HANDLING AND STORAGE

Personal Precautionary Measures: No special precautionary health measures should be needed under anticipated conditions of use.

Prevention of Fire and Explosion: Keep from contact with oxidizing materials.

Storage: Keep container closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Country specific exposure limits have not been established or are not applicable unless listed below.

Ventilation: Good general ventilation (typically 10 air changes per hour)

should be used. Ventilation rates should be matched to conditions. Supplementary local exhaust ventilation, closed systems, or respiratory and eye protection may be needed in special circumstances; such as poorly ventilated spaces, heating, evaporation of liquids from large surfaces, spraying of mists, mechanical generation of dusts, drying of solids, etc.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: organic vapor

Eye Protection: It is a good industrial hygiene practice to minimize eye contact. **Skin Protection:** It is a good industrial hygiene practice to minimize skin contact. **Recommended Decontamination Facilities:** eye bath, washing facilities

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: liquid

Color: light yellow

Odor: fatty

Specific Gravity: 0.91 (25 C)

Vapor Pressure: 180 C; <2.66 mbar

Freezing Point: <10 C

Boiling Point: > 350 C

Viscosity: 32 mPa.s (25 C)

Solubility in Water: slight

Flash Point: >149 C (method unspecified)

Autoignition Temperature: 315 - 371 C (method unspecified)

Thermal Decomposition Temperature: Thermal stability not tested.

Low stability hazard expected at normal operating temperatures.

10. STABILITY AND REACTIVITY

Stability: Not fully evaluated. Materials containing similar structural groups are normally stable.

Incompatibility: Material reacts with strong oxidizing agents.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below.

Additional toxicity data may be available on request.

12. ECOLOGICAL INFORMATION

Acute toxicity data, if available, are listed below.

Additional toxicity data may be available on request.

13. DISPOSAL CONSIDERATIONS

Discharge, treatment, or disposal may be subject to national, state, or

local laws. Incinerate.

14. TRANSPORT INFORMATION

Important Note: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Consult your company's Hazardous Materials/Dangerous Goods expert for information specific to your situation.

DOT (USA)

Class not regulated

Sea - IMDG (International Maritime Dangerous Goods)

Class not regulated

Air - ICAO (International Civil Aviation Organization)

Class not regulated

15. REGULATORY INFORMATION

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS (Canada) Status: non-controlled

SARA 313: none, unless listed below

Carcinogenicity Classification (components present at 0.1% or more):

none, unless listed below

TSCA (US Toxic Substances Control Act): This product is listed on the TSCA inventory. Any impurities present in this product are exempt from listing.

DSL (Canadian Domestic Substances List) and CEPA (Canadian Environmental Protection Act): This product is listed on the DSL or otherwise complies with CEPA new substance notification requirements.

EINECS (European Inventory of Existing Commercial Chemical Substances): This product is listed on EINECS or otherwise complies with EINECS requirements.

AICS / NICNAS (Australian Inventory of Chemical Substances and National Industrial Chemicals Notification and Assessment Scheme): This product is listed on AICS or otherwise complies with NICNAS.

MITI (Japanese Handbook of Existing and New Chemical Substances): This product is listed in the Handbook or has been approved in Japan by new substance notification.

ECL (Korean Toxic Substances Control Act): This product is listed on the Korean inventory or otherwise complies with the Korean Toxic Substances Control Act.

Philippines Inventory (PICCS) : This product is listed on the Philippine Inventory or otherwise complies with PICCS.

Inventory of Existing Chemical Substances in China: All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC).

16. OTHER INFORMATION

Visit our website at www.EASTMAN.com or call 001-423-229-2000.

For Additional Information:

Contact: MSDS Coordinator - Univar USA

During business hours, Pacific Time - (425) 889-3400

NOTICE

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Do not use ingredient information and/or ingredient percentages in this MSDS as a product specification. For product specification information refer to a Product Specification Sheet and/or a Certificate of Analysis. These can be obtained from your local Univar USA Sales Office.

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END OF MSDS

Anita Camarena

From: Debra Lynch [dlynch@ipac-inc.com]
Sent: Tuesday, November 11, 2008 11:34 AM
To: Anita Camarena; Chuck Brown; Kathy DeMarco
Subject: RE: I 400 404 424

2 drums of IPAC 424 have been added to this order, which is scheduled to ship tomorrow, and will arrive in San Jose next week.

Thank you,
Debra

From: Anita Camarena [mailto:acamarena@CoastOil.com]
Sent: Tuesday, November 11, 2008 9:27 AM
To: Debra Lynch; Chuck Brown; Kathy DeMarco
Subject: FW: I 400 404 424

REVISION

I404

PLEASE CONFIRM PRODUCT

THX

From: Anita Camarena
Sent: Tuesday, November 11, 2008 9:24 AM
To: 'Debra Lynch'
Subject: FW: I 400 404 424

Good morning Debra.

Can I add two drums of Ipac 404 to po10908?

Please advise

thx

From: Chuck Brown
Sent: Monday, November 10, 2008 9:33 PM
To: Kathy DeMarco; Anita Camarena
Subject: I 400 404 424

Hello, we need to add a couple drums of IPAC 400 (400, 404, 424, whatever they call it now) over-base to our drum order if possible. Thank you.

11/11/2008