



Material Safety Data Sheet

Revision Date: March 16, 2006

1. PRODUCT/COMPANY IDENTIFICATION

Product Name: JACAAB P3

Synonyms: Molecular Sieve Paste.

Product Use: Water Scavenger Compound for Polyurethane Systems

Manufacturer's Name: JACAAB, LLC.
4155 Manchester Ave.
St. Louis, MO 63110-3823

Information Telephone: (314) 652-5400

Emergency Telephone: (800) 424-9300 CHEMTREC

2. COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary blend containing castor oil and Zeolite aluminosilicate molecular sieves.

<u>Component</u>	<u>CAS#</u>	<u>Weight %</u>	<u>ACGIH TLV mg/cu.M</u>
Castor Oil	8001-79-4	35-65	N.E
Grace Davison			
Zeolite Molecular Sieves	Mixture of *	35-65	N.E.
*Sodium Oxide	1313-59-3	5-25	N.E.
*Calcium Oxide	1305-78-8	0-20	2
*Potassium Oxide	12136-45-7	0-20	N.E.
*Silica (synthetic)	7631-86-9	40-50	10
*Alumina (non-fibrous)	1344-28-1	30-35	10

3. HAZARDS IDENTIFICATION

Light yellow paste, almost odorless. CAUTION! MAY CAUSE SLIGHT IRRITATION TO EYES AND SKIN. MAY BE HARMFUL IF SWALLOWED.

Potential Health Effects

Eye Contact:

May cause slight irritation.

Skin Contact:

May cause slight irritation.

Inhalation:

Not an expected route of exposure.

Ingestion:

May cause gastrointestinal irritation.

Chronic Effects /Carcinogenicity:

No chronic evidence. / IARC: no, NTP: no, OSHA: no

4. FIRST AID MEASURES**Eye Contact:**

Immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

Skin Contact:

Flush skin with soap and water after contact. Remove contaminated clothing and wash before reuse. Consult a physician if irritation persists.

Inhalation:

Not expected to require action. If symptoms like irritation occur, remove to fresh air.

Ingestion:

If swallowed, give 2 glasses of water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a physician.

5. FIRE FIGHTING MEASURES

Flash Point: 250 C, closed cup.

Extinguishing media: Carbon dioxide, dry chemical and foam.

Special Fire Fighting Procedures: Wear full protective equipment and self-contained breathing apparatus to avoid inhalation of smoke or vapors. Straight streams of water will spread fire. Cool containers with water spray or fog.

Unusual Fire and Explosion Hazards: None known.

6. ACCIDENTAL RELEASE MEASURES

Minimize entry of material into sewers and waterways. Isolate spill. Avoid eye and skin contact. Absorb with inert absorbent material and dispose of in accordance with applicable environmental regulations.

7. HANDLING AND STORAGE

Store in a cool, dry, well ventilated area. Keep container closed and avoid moisture contamination. Stir before using product. Shelf life is 6 months from date of manufacture. Wearing of protective gloves and safety glasses is recommended. Wash thoroughly after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: No specific controls or local ventilation are required.

Personal Protective Equipment:

Respirator: When required, wear an appropriate, (NIOSH/MSHA) approved respirator where vapors and mists are possible.

Eye/Face: Chemical splash goggles or equivalent.

Protective Clothing: Where contact is possible, wear impervious gloves and clean protective work clothes.

Exposure Limit Guidelines: None Established.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State, Color and Odor: Light yellow paste with almost no odor.

Melting Point: Not Determined.

Boiling Point: Not Determined.
Flash Point: ~250 C. (closed cup)
Vapor Pressure (20 C.): Not determined.
Density: (20 C.): Not determined.
Water Solubility (20 C.): Insoluble.
pH value (slurry, 50 g/l in water-20 C.): Not determined.
Viscosity (20 C.): 1,000 mPa.s

10. STABILITY AND REACTIVITY

Stability: Stable Material.
Hazardous Polymerization: Will not occur.
Incompatibilities: Can react with strong oxidizers.
Decomposition Products: Oxides of carbon, sodium, calcium, potassium, aluminum and silicon.
Conditions to Avoid: Keep from contact with oxidizers, HF, strong acids or alkalis.

11. TOXICOLOGICAL INFORMATION

(Zeolite, aluminosilicate, molecular sieves)

Acute toxicity

Oral LD50 (Rat) : >5110 mg/kg (limit concentration), OECD 401.

Dermal LD 50 (Rabbit) : >2000 mg/kg

Inhalation LC50: >18.3 mg/L/1 hr.

(castor oil)

Acute toxicity

Oral LD50 (Rat) : >5000 mg/Kg

Eye irritation (Rabbit): 500 mg – mild

Skin irritation (Rabbit): Mild

Skin Irritation (Human): 48 hr. patch test – non irritating

12. ECOLOGICAL INFORMATION

Aluminosilicate is chemically and biologically inert. Castor oil is biodegradable.

13. DISPOSAL INFORMATION

Dispose of in accordance with applicable Federal, State, and local regulations. Under the Resource Conservation and Recovery Act (RCRA) regulations, it is the responsibility of the user to determine whether the material should be classified as a hazardous waste.

14. TRANSPORTATION INFORMATION

Not regulated as a hazardous material or hazardous substance by DOT, IMO, or ICAO.

15. REGULATORY INFORMATION

U.S.TSCA Inventory: All components are listed including those of Zeolites which are defined as statutory mixtures.

Canadian DSL Status: All components are listed including those of Zeolites per Sect. 2.

CERCLA Reportable Quantity: None

SARA Title III Extremely Hazardous Substances, Section 302: None

SARA Title III Hazard Categories, Section 311/312: Acute: Yes, Chronic: No, Fire: Yes, Reactivity: No, Pressure: No.

SARA Title III Toxic Chemicals, Section 313: None

RCRA Status: See Section 13 this MSDS and (40CFR 261.20-24)

EINECS - registered.

16. OTHER INFORMATION

Sections affected this revision: 15-DSL information, 16- Abbreviations

Labeling (OSHA)

CAUTION!

MAY CAUSE SLIGHT IRRITATION TO EYES AND SKIN. MAY BE HARMFUL IF SWALLOWED. Keep away from heat, sparks and flame. Avoid contact with skin and eyes. Keep container closed.

NFPA/HMIS Codes: Health=1, Flammability=1, Reactivity=0 **Scale:** 0=Least to 4 =Extremely Severe.

Abbreviations:

ACGIH-American Conference of Governmental Industrial Hygienists

ADR-European Agreement; International Carriage of Dangerous Goods by Road.

CERCLA-Comprehensive Environmental Protection Act

CFR-Code of Federal Regulations

CHEMTREC-Chemical Transportation Emergency Center

DOT-U.S.Department of Transportation

DSL – Domestic Substance List (Canada)

EEC-European Economic Community

HMIS-Hazardous Materials Identification System

IARC-International Agency for Research on Cancer

IATA-International Air Transport Association

ICAO-International Civil Aviation Organization

IMDG-International Maritime Dangerous Goods

MSHA-Mine Safety and Health Administration

N.E. - Not Established

NFPA-National Fire Protection Association

NIOSH-National Institute for Occupational Safety and Health

NTP-National Toxicology Program

OSHA-Occupational Safety and Health Administration, PEL-Permissible Exposure Limit

RCRA-Resource Conservation and Recovery Act

SARA-Superfund Amendment Reauthorization Act, TLV-Threshold Limit Value

TLV-Threshold Limit Value (based on 8 hr. exposure)

TSCA-Toxic Substance Control Act

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