

# Material Safety Data Sheet

MSDS# J00530627\_05262005

## Section 1. Chemical Product and Company Identification

<b>Product name</b>	<b>JACAAB-ETHOMEEN S/12</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
Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.	73246-96-5	98-100
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	25322-68-3	0.001-2
Amines, soya alkyl	61790-18-9	0.001-2
N-(2-hydroxyethyl) soya alkylamines	Not Assigned	0.001-2

## Section 3. Hazards Identification

<b>Physical State</b>	Liquid.
<b>Color</b>	Amber.
<b>Odor</b>	Amine like.
<b>Emergency Overview</b>	DANGER! CAUSES EYE AND SKIN BURNS. VERY TOXIC TO AQUATIC ORGANISMS. MAY BE HARMFUL IF SWALLOWED.  Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.
<b>Possible Carcinogenic Effects</b>	<b>Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.:</b> IARC, NTP, OSHA, ACGIH: Not listed. <b>Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-:</b> IARC, NTP, OSHA, ACGIH: Not listed. <b>Amines, soya alkyl:</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 immediately.
<b>Skin Contact</b>	In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

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<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. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
<b>Medical Conditions Aggravated by Overexposure</b>	Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation. Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection.

## Section 5. Fire Fighting Measures

<b>Flammability of the Product</b>	May be combustible at high temperature.
<b>Auto-ignition Temperature</b>	The lowest known value is >150°C (302°F) (Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-).
<b>Flash Points</b>	Closed cup: >100°C (212°F). (Pensky-Martens.)
<b>Products of Combustion</b>	These products are carbon oxides (CO, CO <sub>2</sub> ), nitrogen oxides (NO, NO <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

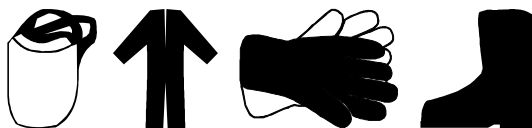
<b>Small Spill and Leak</b>	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container.
<b>Large Spill and Leak</b>	Stop leak if without risk. If the product is in its solid form: Use a shovel to put the material into a convenient waste disposal container. If the product is in its liquid form: Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Absorb with an inert material and put the spilled material in an appropriate waste disposal. Do not touch spilled material. Use water spray curtain to divert vapor drift. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

## Section 7. Handling and Storage

<b>Handling</b>	Do not ingest. Avoid breathing vapors or spray mists. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.
<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.
<b>Personal Protection</b>	
<b>Eyes</b>	Face shield.
<b>Body</b>	Full suit.
<b>Respiratory</b>	Wear appropriate respirator when ventilation is inadequate.
<b>Hands</b>	Gloves.
<b>Feet</b>	Boots.

**Protective Clothing  
(Pictograms)****Personal Protection in  
Case of a Large Spill**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

**Ingredient Name****Exposure Limits United States**

Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.	Not available.
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	Not available.
Amines, soya alkyl	Not available.
N-(2-hydroxyethyl) soya alkylamines	Not available.

**Section 9. Physical and Chemical Properties**

<b>Physical State</b>	Liquid.
<b>Color</b>	Amber.
<b>Odor</b>	Amine like.
<b>Molecular Weight</b>	Not applicable.
<b>Molecular Formula</b>	Not applicable.
<b>pH</b>	Neutral.
<b>Boiling/Condensation Point</b>	>300°C (572°F)
<b>Melting/Freezing Point</b>	15°C (59°F)
<b>Cloud Point</b>	17°C
<b>Pour Point</b>	16°C
<b>Density</b>	0.902 g/cm <sup>3</sup> (25°C / 77°F)
<b>Vapor Pressure</b>	<0.1 kPa (<1 mmHg) (at 20°C)
<b>Vapor Density</b>	The highest known value is >10 (Air = 1) (Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-).
<b>Evaporation Rate</b>	Weighted average: 0.45 compared to Butyl acetate.
<b>Solubility</b>	Soluble in cold water.
<b>Dispersion Properties</b>	Viscosity = 565SSU @ 25°C.

**Section 10. Stability and Reactivity**

<b>Stability and Reactivity</b>	The product is stable.
<b>Hazardous Polymerization</b>	Will not occur.

**Section 11. Toxicological Information****Toxicity to Animals**

<b>Ingredient Name or Product name</b>	<b>Test</b>	<b>Result</b>	<b>Route</b>	<b>Species</b>
Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.	LD50	1260 mg/kg	Oral	Rat based on data for: (similar material)
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	LD50	28000 mg/kg	Oral	Rat
	LD50	31000 mg/kg	Oral	Mouse
	LD50	14000 mg/kg	Oral	Rabbit
	LD50	>20000 mg/kg	Dermal	Rabbit
Amines, soya alkyl	LD50	1950 mg/kg	Oral	Rat based on data for: (similar material)

**Special Remarks on Toxicity to Animals**

**Amines, soya alkyl:** INHALATION = 0.033 mg/L hour(s) Rat based on data for: (similar material)

**Chronic Effects on Humans**

**MUTAGENIC EFFECTS:** Classified None. for human [Amines, soya alkyl]. Non-mutagenic for bacteria and/or yeast. [Amines, soya alkyl].

**Special Remarks on Chronic Effects on Humans**

**Amines, soya alkyl:** Chromosomal (DNA) abnormalities will not occur in CHO mammalian cell assay, the In Vivo Cytogenetics Assay in mice, the CHO/HGPRT mammalian cell assay and the Mouse Lymphoma Assay; based on data for: (similar material)

**Acute Effects Skin**

Corrosive to the skin. Practically non-toxic in contact with skin.

**Acute Effects Eyes**

Corrosive to the eyes.

**Special Remarks on Other Toxic Effects on Humans**

:  
Skin based on data for: (similar material)

## Section 12. Ecological Information

**Ecotoxicity**

Ingredient Name or Product name	Species	Period	Result
Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.	Fish based on data for: (similar material) (LC50)	96 hours	0.39 mg/l
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-Amines, soya alkyl	Daphnia (EC50)	48 hours	>10000 mg/l
	Fish (LC50)	24 hours	>5000 mg/l
	Minnows based on data for: (similar material) (LC50)	96 hours	0.11 mg/l
	daphnia based on data for: (similar material) (EC50)	48 hours	0.011 mg/l
	Algae. based on data for: (similar material) (EC50)	96 hours	0.03 mg/l

**Biodegradability and Ecotoxicity Remarks**

**Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.:** 42% @ 28 day(s) CBT based on data for: (similar material); 54% @ 42 day(s) CBT based on data for: (similar material)  
**Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-:** 5% @ 5 day(s) CBT 38% @ 10 day(s) CBT 70% @ 20 day(s) CBT  
**Amines, soya alkyl:** 55% @ 28 day(s) CBT based on data for: (similar material); 72% @ 42 day(s) CBT based on data for: (similar material)

**Products of Degradation**

These products are carbon oxides (CO, CO<sub>2</sub>) and water, nitrogen oxides (NO, NO<sub>2</sub>...).


## 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>	UN2735	Amines, liquid, corrosive, n.o.s. (Alkoxylated fatty amines)	8	III		-

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<b>TDG Classification</b>	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated fatty amines)	8 -	III		<b>Special Provisions</b> Classified in Accordance with UN Recommendations
<b>IMDG Class</b>	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated fatty amines)	8 -	III		-
<b>IATA-DGR Class</b>	UN2735	Amines, liquid, corrosive, n.o.s. (Alkoxylated fatty amines)	8 -	II		-

## Section 15. Regulatory Information

**HCS Classification** Corrosive material

**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.

**State Regulations** No products were found.  
 California prop. 65: No products were found.

**WHMIS (Canada)** Class E: Corrosive liquid.  
 CEPA DSL: Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, soya alkyl

European Union	Component	EC Number	EC Status	EC Annex
	Ethanol, 2,2'-iminobis-, N-soya alkyl derivs.	Not available.	Not available.	Not available.
	Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	Not available.	Not available.	Not available.
	Amines, soya alkyl	263-112-0	Not available.	Not available.
	N-(2-hydroxyethyl) soya alkylamines	Not available.	Not available.	Not available.

**Other International Lists** Australia (NICNAS): Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, soya alkyl  
 Japan (MITI): Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, soya alkyl  
 Korea (TCCL): Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, soya alkyl  
 Philippines (RA6969): Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-

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## Section 16. Other Information

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

Health	3
Fire Hazard	1
Reactivity	0
Personal Protection	

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



Validation date

05/26/05

Phone Number

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.