### Material Safety Data Sheet

MSDS# J00530650

800-424-9300

314-652-5400

#### Section 1. Chemical Product and Company Identification

JACAAB-ETHOMEEN T/12 **Product name** 

**Material Uses** : Surfactant. In Case of Emergency

AKZO NOBEL SURFACE CHEMISTRY LLC Supplier/ 525 West Van Buren Repackager

Chicago, IL 60607-3823

JACAAB LLC

4155 Manchester Ave St. Louis, MO 63110

Medical/Handling: 914-693-6946

CHEMTREC:

**JACAAB** 

# Section 2. Composition, Information on Ingredients

CAS# % by Weight Name Ethanol, 2,2'-iminobis, n-tallow alkyl derivs. 97-100 61791-44-4 Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-25322-68-3 0.001 - 2Amines, tallow alkyl 61790-33-8 0.001 - 2

#### Section 3. Hazards Identification

**Physical State** Liquid. Color Amber. Odor Amine like.

DANGER! **Emergency Overview** 

CAUSES EYE AND SKIN BURNS. MAY BE HARMFUL IF SWALLOWED MAY CAUSE ALLERGIC SKIN REACTION. HARMFUL TO AQUATIC ORGANISMS.

MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

Do not get in eyes, on skin or on clothing. Do not ingest. Avoid breathing vapor or mist. Avoid prolonged or repeated contact with skin. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface

waterways.

Possible Carcinogenic

**Effects** 

Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.: IARC, NTP, OSHA, ACGIH: Not listed. Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-: IARC, NTP, OSHA, ACGIH: Not listed.

Amines, tallow alkyl: IARC, NTP, OSHA, ACGIH: Not listed.

**Routes of Entry** Absorbed through skin. Dermal contact. Eye contact.

**See Toxicological Information (section 11)** 

ETHOMEEN T/12 Page: 2/6

#### 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. Cold water may be used. Get medical attention immediately.

Skin Contact In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing

contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Get medical attention immediately.

**Inhalation** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Get medical attention.

**Ingestion** 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.

Medical Conditions Aggravated by Overexposure 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

Flammability of the

**Product** 

May be combustible at high temperature.

**Auto-ignition Temperature**  The lowest known value is >150°C (302°F) (Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-).

Flash Points Closed cup: >100°C (212°F). (Pensky-Martens.)

Products of Combustion These products are carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>...).

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.

#### 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: Use suitable protective equipment (Section 8).

Large Spill and Leak

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. Use suitable protective equipment (Section 8).

# Section 7. Handling and Storage

**Handling** Do not ingest. Avoid breathing vapors or spray mists. Avoid prolonged or repeated contact with skin.

Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling. Avoid

contact of spilled material and runoff with soil and surface waterways.

Storage Keep container tightly closed. Keep container in a cool, well-ventilated area.

ETHOMEEN T/12 Page: 3/6

### Section 8. Exposure Controls, Personal Protection

Engineering Controls 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.

**Personal Protection** 

Eyes Face shield.

Body Full suit.

**Respiratory** Wear appropriate respirator when ventilation is inadequate.

Hands Gloves.
Feet 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-tallow alkyl derivs. Poly(oxy-1,2-ethanediyl),

a-hydroxy-w-hydroxy-Amines, tallow alkyl Not available. Not available.

Not available.

### Section 9. Physical and Chemical Properties

Physical State Liquid.

Color Amber.

Odor Amine like.

Molecular Weight Not applicable.

Molecular Formula Not applicable.

pH Acidic.

**Boiling/Condensation** 

>300°C (572°F)

Polit

,

Melting/Freezing Point 29°C (84.2°F)
Cloud Point 29°C

Pour Point 33°C

Density0.916 g/cm³ (25°C / 77°F)Vapor Pressure<0.01 kPa (<0.1 mmHg) (at 20°C)</th>SolubilityVery slightly soluble in cold water.

**Dispersion Properties** Not available.

Viscosity = 34 cp @ 50°C; 29 cp @ 70°C.

# Section 10. Stability and Reactivity

Stability and Reactivity

The product is stable.

Incompatibility with Various Substances

Reactive with OXIDIZING AGENTS, acids.

#### Continued on Next Page

ETHOMEEN T/12 Page: 4/6

#### Section 11. Toxicological Information

Toxicity to Animals				
Ingredient Name or Product name	Test	Result	Route	Species
Ethanol, 2,2'-iminobis, n-tallow alkyl	LD50	1200 to 1500	Oral	Rat
derivs.	LDOO	mg/kg	Orai	rtat
Poly(oxy-1,2-ethanediyl),	LD50	28000 mg/kg	Oral	Rat
a-hydroxy-w-hydroxy-	LD50	31000 mg/kg	Oral	Mouse
	LD50	14000 mg/kg	Oral	Rabbit
	LD50	>20000 mg/kg	Dermal	Rabbit
Amines, tallow alkyl	LD50	1950 mg/kg	Oral	Rat

**Special Remarks on Toxicity to Animals** 

Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.: INHALATION LC50 = 220 ppm @1 hour, rat based

on data for: (similar material)

Amines, tallow alkyl: INHALATION > 0.033 mg/L 1 hour(s) Rat; highest concentration tested.

**Chronic Effects on Humans** 

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

Special Remarks on Chronic Effects on Humans Amines, tallow 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 a similar material.

Acute Effects Skin

Corrosive to the skin. May cause sensitization by skin contact. Practically non-toxic in contact with

skin.

**Acute Effects Eyes** 

Corrosive to the eyes.

### Section 12. Ecological Information

Ecotoxicity Ingredient Name or Product name	Species	Period	Result
Poly(oxy-1,2-ethanediyl),	Daphnia (EC50)	48 hour(s)	>10000 mg/l
a-hydroxy-w-hydroxy-	Fish (LC50)	24 hour(s)	>5000 mg/l
Amines, tallow alkyl	Minnows based on data for: (similar material) (LC50)	96 hour(s)	0.11 mg/l
	daphnia based on data for: (similar material) (EC50)	48 hour(s)	0.011 mg/l
	Algae. based on data for: (similar material) (EC50)	72 hour(s)	0.03 mg/l

Biodegradability and Ecotoxicity Remarks

 $\textbf{Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.: } 52\% @ 28 \ \, \text{day(s)} \ \, \text{CBT; } 62\% @ 35 \ \, \text{day(s)} \ \, \text{CBT}$ 

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, tallow alkyl: 55% @ 28 day(s) CBT. 72% @ 42 day(s) CBT

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.

ETHOMEEN T/12 Page: 5/6

# Section 14. Transport Information

Regulatory Information	UN number	Proper shipping name	Class	Packing Group	Label	Additional information
DOT Classification	UN2735	Amines, liquid, corrosive, n.o.s. (Alkoxylated fatty amines)	8	III	ANGE	-
TDG Classification	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated fatty amines)	8	III		Special Provisions Classified in Accordance with UN Recomendations
IMDG Class	UN2735	AMINES, LIQUID, CORROSIVE, N.O.S. (Alkoxylated fatty amines)	8	III		-
IATA-DGR Class	UN2735	Amines, liquid, corrosive, n.o.s. (Alkoxylated fatty amines)	8	III		-

# 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: ETHOMEEN® T/12

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ETHOMEEN® T/12:

Immediate (Acute) Health Hazard

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-tallow alkyl derivs.; Poly(oxy-1,2-ethanediyl),

a-hydroxy-w-hydroxy-; Amines, tallow alkyl

Component EC Number EC Status EC Annex

ETHOMEEN T/12				Page: 6/6	
European Union	Ethanol, 2,2'-iminobis, n-tallow alkyl derivs.	263-177-5	Not available.	Not available.	
	Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	Not available.	Not available.	Not available.	
	Amines, ťallow alkyľ	263-125-1	Not available.	Not available.	
Other International Lists	Australia (NICNAS): Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, tallow alkyl  Japan (MITI): Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, tallow alkyl  Korea (TCCL): Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, tallow alkyl				
	Philippines (RA6969): Ethanol, 2,2'-iminobis, N-tallow alkyl derivs.; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-; Amines, tallow alkyl				

#### Section 16. Other Information

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



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



Validation Date

4/22/2004.

**Previous Validation Date** 

No Previous Validation.

Date
Phone Number

5/25/2006 **314-652-5400** 

#### 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.