



Material Safety Data Sheet



MSDS# 15-4436

Section 1. Chemical Product and Company Identification

Product name ETHOMEEN® C/25

Material Uses : Surfactant.

In Case of Emergency

**Supplier/
Manufacturer** AKZO NOBEL SURFACE CHEMISTRY LLC
525 West Van Buren
Chicago, IL 60607-3823

CHEMTREC: 800-424-9300
CANUTEC: 613-996-6666
Medical/Handling: 914-693-6946
Product/Technical: 800-906-9977

AKZO NOBEL CHEMICALS LTD.
1 City Centre Drive, Suite 318
Mississauga, Ontario L5B 1M2
Canada

Section 2. Composition, Information on Ingredients

Name	CAS #	% by Weight
Amines, coco alkyl, ethoxylated	61791-14-8	98-100
Amines, coco alkyl	61788-46-3	0.001-2
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	25322-68-3	0.001-2

Section 3. Hazards Identification

Physical State Liquid.

Color Amber.

Odor Amine like.

Emergency Overview DANGER!
CAUSES EYE BURNS.
CAUSES SEVERE SKIN IRRITATION.
MAY BE HARMFUL IF SWALLOWED.

Do not get in eyes. Do not ingest. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Possible Carcinogenic Effects **Amines, coco alkyl, ethoxylated:** IARC, NTP, OSHA, ACGIH: Not listed.
Amines, coco alkyl: IARC, NTP, OSHA, ACGIH: Not listed.
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-: IARC, NTP, OSHA, ACGIH: Not listed.

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

See Toxicological Information (section 11)

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. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

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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 exposure is not known to aggravate medical condition.

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).
Products of Combustion	These products are carbon oxides (CO, CO ₂), nitrogen oxides (NO, NO ₂ ...).
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	Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Use suitable protective equipment (Section 8) . Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.
Large Spill and Leak	Absorb with an inert material and put the spilled material in an appropriate waste disposal. Use suitable protective equipment (Section 8) . Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7. Handling and Storage

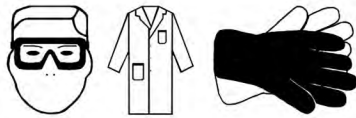
Handling	Do not ingest. Avoid breathing vapors or spray mists. Avoid contact with skin and clothing. Do not get in eyes. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.
Storage	Keep container tightly closed. Keep container in a cool, well-ventilated area.

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	Splash goggles.
Body	Lab coat.
Respiratory	Wear appropriate respirator when ventilation is inadequate.
Hands	Gloves.
Feet	Not applicable.

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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

Amines, coco alkyl, ethoxylated
Amines, coco alkyl
Poly(oxy-1,2-ethanediyl),
a-hydroxy-w-hydroxy-

Exposure Limits United States

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	11 [Basic.]
Boiling/Condensation Point	>300°C (572°F)
Melting/Freezing Point	-6°C (21.2°F)
Cloud Point	-2°C
Pour Point	-4°C
Density	1.038 g/cm ³ (25°C / 77°F)
Vapor Pressure	<0.01 kPa (<0.1 mmHg) (at 20°C)
Vapor Density	The highest known value is >10 (Air = 1) (Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-).
Evaporation Rate	Weighted average: 0.89 compared to Butyl acetate.
Solubility	Partially soluble in cold water.
Dispersion Properties	See solubility in water. Viscosity = 180cp @ 25°C.

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Incompatibility with Various Substances	Reactive with OXIDIZING AGENTS, acids.
Hazardous Polymerization	Will not occur.

Section 11. Toxicological Information

Toxicity to Animals

Ingredient Name or Product name	Test	Result	Route	Species
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Amines, coco alkyl, ethoxylated	LD50	750 mg/kg	Oral	Rat
Amines, coco alkyl	LD50	1300 mg/kg	Oral	Rat
	LD50	>2000 mg/kg	Dermal	Rabbit
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

Special Remarks on Toxicity to Animals **Amines, coco alkyl:** INHALATION LC50 > 0.099 mg/L, 1 hour(s) Rat

Acute Effects Skin Severely irritating 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 :

Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product name	Species	Period	Result
ETHOMEEN® C/25	daphnia based on data for: (similar material) (EC50)	48 hour(s)	12 mg/l
	Zebrafish based on data for: (similar material) (LC50)	96 hour(s)	4.31 mg/l
	Bluegill. based on data for: (similar material) (LC50)	96 hour(s)	19.6 mg/l
Amines, coco alkyl	daphnia based on data for: (similar material) (EC50)	48 hour(s)	0.032 mg/l
Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	Daphnia (EC50)	48 hour(s)	>10000 mg/l
	Fish (LC50)	24 hour(s)	>5000 mg/l

Biodegradability and Ecotoxicity Remarks 45% @ 28 day(s); 50% @ 42 day(s) CBT based on data for: (similar material)

Biodegradable/OECD Inherently biodegradable.

Products of Degradation These products are carbon oxides (CO, CO₂) and water, nitrogen oxides (NO, NO₂...).

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
DOT Classification	Not regulated.	-	-	-		-
TDG Classification	Not regulated.	-	-	-		-
IMDG Class	Not regulated.	-	-	-		-

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IATA-DGR Class	Not regulated.	-	-	-	-

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® C/25
 SARA 311/312 MSDS distribution - chemical inventory - hazard identification: ETHOMEEN® C/25:
 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 D-2B: Material causing other toxic effects (TOXIC).
 CEPA DSL: Amines, coco alkyl, ethoxylated; Amines, coco alkyl; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-

European Union	Component	EC Number	EC Status	EC Annex
	Amines, coco alkyl, ethoxylated	Not available.	Not available.	Not available.
	Amines, coco alkyl	262-977-1	Not available.	Not available.
	Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-	Not available.	Not available.	Not available.

Other International Lists Australia (NICNAS): Amines, coco alkyl, ethoxylated; Amines, coco alkyl; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-
 China: Amines, coco alkyl, ethoxylated
 Germany water class: Amines, coco alkyl, ethoxylated
 Japan (MITI): Amines, coco alkyl; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-
 Korea (TCCL): Amines, coco alkyl, ethoxylated; Amines, coco alkyl; Poly(oxy-1,2-ethanediyl), a-hydroxy-w-hydroxy-
 Philippines (RA6969): Amines, coco alkyl, ethoxylated; Amines, coco alkyl; 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	2
Fire Hazard	1
Reactivity	0
Personal Protection	

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



Other Information Ethomeen® is a registered trademark of Akzo Nobel or affiliated companies and is registered in one or more countries including the United States.

Validation Date 2/19/2004.

Validated by

Elitania Carlos

Previous Validation Date No Previous Validation.

Print Date

2/19/2004.

Phone Number

312-544-7038

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.