

Material Safety Data Sheet



MSDS# 15-0482

ASI# J00530675

Section 1. Chemical Product and Company Identification

Product name ETHOQUAD® C/25

Material Uses : Surfactant.

Supplier/Manufacturer AKZO NOBEL SURFACE CHEMISTRY LLC
525 West Van Buren
Chicago, IL 60607-3823
www.surfactants.akzonobel.com

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

In Case of Emergency

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



DISTRIBUTED BY

ST. LOUIS/NORTHEAST
(314) 533-4662

MEMPHIS
(901) 346-2012

KANSAS CITY
(816) 471-2176

CHICAGO
(847) 490-8950

Section 2. Hazards Identification

Physical State Liquid.

Color Amber.

Odor Amine like.

Emergency Overview WARNING!
CAUSES EYE IRRITATION.
MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE SKIN IRRITATION.
HARMFUL TO AQUATIC ORGANISMS.
MAY BE HARMFUL TO ENVIRONMENT IF RELEASED IN LARGE AMOUNTS.

Avoid contact with eyes, skin and clothing. Do not ingest. Wash thoroughly after handling. Avoid contact of spilled material and runoff with soil and surface waterways.

Possible Carcinogenic Effects quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides: IARC, NTP, OSHA, ACGIH: Not listed.
amines, coco alkyl, ethoxylated: IARC, NTP, OSHA, ACGIH: Not listed.
water: IARC, NTP, OSHA, ACGIH: Not listed.

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

See Toxicological Information (section 11)

Section 3. Composition/ Information on Ingredients

Name	CAS #	% by Weight
quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	61791-10-4	95-100
amines, coco alkyl, ethoxylated	61791-14-8	0.001-2
Ethoxylated cocoalkyl amine hydrochlorides	Not Assigned	0.001-2
water	7732-18-5	0.001-2

Continued on Next Page

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 30 minutes. Cold water may be used. Get medical attention immediately.
Skin Contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
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.
Flash Points	Closed cup: 127°C (260.6°F).
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	Avoid contact with eyes, skin and clothing. Do not ingest. 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.

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.

Continued on Next Page

Hands

Gloves.

Feet

Not applicable.

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

quaternary ammonium compounds, coco
alkylbis(hydroxyethyl)methyl, ethoxylated,
chlorides

amines, coco alkyl, ethoxylated

Ethoxylated cocoalkyl amine

hydrochlorides

water

Exposure Limits United States

Not available.

Not available.

Not available.

Not available.

Section 9. Physical and Chemical Properties

Physical State	Liquid.
Color	Amber.
Odor	Amine like.
pH	Basic.
Melting/Freezing Point	-5°C (23°F)
Pour Point	15°C
Density	1.076 g/cm ³ (25°C / 77°F)
Vapor Pressure	<0.1 kPa (<1 mmHg) (at 20°C)
Solubility	Easily soluble in hot water, methanol, acetone. Soluble in cold water.
Dispersion Properties	See solubility in water, methanol, acetone.
Physical Chemical Comments	Viscosity = 1150cp @ 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
quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	LD50	580 mg/kg	Oral	Rat

Acute Effects Skin Moderately irritating to the skin.

Continued on Next Page

Acute Effects Eyes Severely irritating to the eyes.

Section 12. Ecological Information

Ecotoxicity

Ingredient Name or Product name	Species	Period	Result
quaternary ammonium compounds, coco	Trout (LC50)	96 hour(s)	24 mg/l
alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	Algae. (EC50)	96 hour(s)	3.9 mg/l
amines, coco alkyl, ethoxylated	Fish (LC50)	96 hour(s)	7.5 mg/l
	Daphnia (EC50)	48 hour(s)	9.5 mg/l

Biodegradability and Ecotoxicity Remarks

quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides: 11% @ 28 day(s) CBT; 26% @ 112 day(s) CBT
amines, coco alkyl, ethoxylated: <60% CO₂, 28 days, Modified Sturm Test (OECD 3101B)

Biodegradable/OECD Inherently biodegradable.

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.	-	-	-		-
IATA-DGR Class	Not regulated.	-	-	-		-

Section 15. Regulatory Information

HCS Classification Irritating 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.
TSCA 5(a)2 final significant rules: No products were found.

Continued on Next Page

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 D-2B: Material causing other toxic effects (TOXIC).

CEPA DSL: quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; amines, coco alkyl, ethoxylated; water

European Union

Component	EC Number	EC Status	EC Annex
quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides	Not available.	Polymeric.	Not available.
amines, coco alkyl, ethoxylated	500-152-2	NLP.	Not available.
Ethoxylated cocoalkyl amine hydrochlorides	Not available.	Not available.	Not available.
water	231-791-2	Not available.	Not available.

Other International Lists

Australia (NICNAS): quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; amines, coco alkyl, ethoxylated; water

China: quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; amines, coco alkyl, ethoxylated; water

Japan (MITI): quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; water

Korea (TCCL): quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; amines, coco alkyl, ethoxylated; water

Philippines (RA6969): quaternary ammonium compounds, coco alkylbis(hydroxyethyl)methyl, ethoxylated, chlorides; amines, coco alkyl, ethoxylated; water

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

Validation Date 5/16/2007.
Previous Validation Date 10/26/2004.

Validated by Product Safety Specialist
Print Date 11/9/2007.
Phone Number 312-544-7038

Notice to Reader

Continued on Next Page

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.