

SAFETY DATA SHEET

This product is distributed by Canada Colors and Chemicals Limited General Inquiry: (905) 459-1232 24 Hour Emergency: (416) 444 2112



CCC Product Code: _____

CCC: Product Name: _

ETHOMEEN C/12

Version 1 Revision Date 01/13/2015 Print Date 02/13/2015 US / Z8

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : ETHOMEEN C/12

Product Use Description : Surfactant

Company : Akzo Nobel Surface Chemistry LLC

525 West Van Buren Chicago IL 60607

USA

Telephone : +18009069977 Fax : +13125447188

E-mail address

Emergency telephone : Chemtrec: 800-424-9300 Canutec: 613-996-6666 Medical/Handling:

914-693-6946

2. HAZARDS IDENTIFICATION

Emergency Overview

| Appearance | liquid |
|------------|--------------|
| Color | light yellow |
| Odor | ammoniacal |

GHS Classification

Acute toxicity, Category 4, Oral Skin corrosion, Category 1C Serious eye damage, Category 1 Acute aquatic toxicity, Category 1 Chronic aquatic toxicity, Category 1

GHS Label element

Hazard pictograms :







Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements : Prevention:

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye

protection/ face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON CENTER or

doctor/ physician if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT

induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/

shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep

at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor/

physician.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/container in accordance with local

regulation.

Potential Health Effects

Inhalation : Inhalation of aerosols may cause irritation to mucous

membranes.

Thermal decomposition can lead to release of irritating gases

and vapors.

Skin : Burns may occur several hours after the removal of the

product.

Symptoms may be delayed. Causes severe skin burns.

The product may be absorbed through the skin.

Eyes : Vapor in the eyes may cause irritation and pain.

Causes severe eye burns.

Ingestion : Harmful if swallowed.

Causes burns.

Aggravated Medical

Condition

: None known.

Symptoms of Overexposure : No information available.

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

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carcinogen by NTP.

ACGIH : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

| Tid Zdi dodo ingi odiono | | | | | |
|-------------------------------------|------------|-------------------------|-------------------|--|--|
| Chemical Name | CAS-No. | Classification | Concentration [%] | | |
| Bis (2-hydroxyethyl) cocoalkylamine | 61791-31-9 | Acute Tox. 4; H302 | 90 - 100 | | |
| | | Skin Corr. 1C; H314 | | | |
| | | Eye Dam. 1; H318 | | | |
| | | Aquatic Acute 1; H400 | | | |
| | | Aquatic Chronic 1; H410 | | | |
| | | M-Factor (Acute): 10 | | | |
| | | M-Factor (Chronic): 10 | | | |
| | | | | | |

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

General advice : Immediate medical attention is required.

Move out of dangerous area.

Show this material safety data sheet to the doctor in

attendance.

Burns may occur several hours after the removal of the

product.

Inhalation : Obtain medical attention immediately.

If breathed in, move person into fresh air.

Skin contact : Take off contaminated clothing and shoes immediately.

Wash skin immediately with 0,5 % acetic acid in water, and

then with soap and water.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

Skin irritation, if untreated, may be prolonged and serious (e.g., necrosis). This may be prevented by early treatment

with medium strenght corticosteroids.

Eye contact : In case of contact with eyes, rinse immediately with 0.5%

acetic acid in water for a few minutes, followed by rinsing with

plenty of water.

Get medical attention immediately. Continue to rinse during

transport of patient. Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

Small amounts splashed into eyes can cause irreversible

tissue damage and blindness.

Ingestion : Clean mouth with water and drink afterwards plenty of water.

Never give anything by mouth to an unconscious person.

Take victim immediately to hospital.

Do not induce vomiting! May cause chemical burns in mouth

and throat.

Notes to physician

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: No information available. **Symptoms**

Risks : No information available.

Treatment : No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire fighting / Specific hazards arising from the chemical

: Treat as oil fire.

Do not use a solid water stream as it may scatter and spread

Water spray may be ineffective unless used by experienced

firefighters.

Do not allow run-off from fire fighting to enter drains or water

courses.

Combustion products Carbon oxides

Nitrogen oxides (NOx)

Special protective equipment

for fire-fighters

: Wear self-contained breathing apparatus and protective suit.

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

See also Section 9. Physical and chemical properties: Safety data

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use personal protective equipment.

Ensure adequate ventilation.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods for cleaning up /

Methods for containment

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Additional advice : For personal protection see section 8.

7. HANDLING AND STORAGE

Handling

Advice on safe handling For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers

: Keep container tightly closed in a dry and well-ventilated

place.

Avoid elevated temperatures.

Reacts with copper, aluminum, zinc and their alloys

Other data : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Contains no substances with occupational exposure limit values.

Engineering measures

Provide eyewash station and safety shower. Keep solutions of 0.5% acetic acid in water close at

Effective exhaust ventilation system

Personal protective equipment

Eye/face protection : Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Hand protection : Glove material: Nitrile rubber

: Glove material: butyl-rubber

Skin and body protection : Protective suit

Respiratory protection : In the case of vapor or aerosol formation use a respirator with

an approved filter.

Wear full face mask supplied with: Combination filter: ABEKP.

Hygiene measures : Avoid contact with skin, eyes and clothing.

When using do not eat or drink. When using do not smoke.

Dry-clean contaminated clothing before reuse.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

If the product contaminates rivers and lakes or drains inform

respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

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Color : light yellow

Odor : ammoniacal

Odor Threshold : No data available

Safety data

pH : 9 - 11 at 1 % solution

Pour pointMelting : $8 \, ^{\circ}\text{C}$ point/freezing point : $6 \, ^{\circ}\text{C}$

Boiling point/boiling range : > 200 °C

Flash point : 193 °C

Method: Pensky-Martens closed cup

Ignition temperature : > 150 °C

Evaporation rate : not determined

Flammability (solid, gas) : No data available

Lower explosion limit : No data available

Upper explosion limit : No data available

Vapor pressure : < 0.1 hPa at 20 °C

Relative vapor density : not determined

Density : 910 kg/m3 at 20 °C

Relative density : ca. 0.91 at 20 °C

Water solubility : dispersible/insoluble

Solubility in other solvents : Soluble in ethanol.

Partition coefficient: n-

octanol/water

: log Pow: 0.7

at 25 $^{\circ}\text{C}$

Autoignition temperature : 270 °C

Autoignition temperature

Decomposition temperature : No data available

Viscosity, dynamic : 135 mPa.s at 20 °C

Viscosity, kinematic : ca. 148 mm2/s

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

This material safety datasheet only contains information relating to safety and does not replace any product information or product specification.

10. STABILITY AND REACTIVITY

Conditions to avoid : Extremes of temperature and direct sunlight.

Materials to avoid : Reacts with copper, aluminum, zinc and their alloys

Hazardous decomposition

products

: No hazardous decomposition products are known.

Thermal decomposition : No data available

Reactivity : Stable under normal conditions.

Chemical stability : Stable under recommended storage conditions.

Hazardous reactions : No dangerous reaction known under conditions of normal use.

11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

Toxicology Assessment

Further information : No further data available.

Carcinogenicity:

IARC : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHA : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by OSHA.

NTP : No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated

carcinogen by NTP.

ACGIH : No ingredient of this product present at levels greater than or

equal to 0.1% is identified as a carcinogen or potential

carcinogen by ACGIH.

TOXICOLOGY DATA FOR THE INGREDIENTS:

Test result

Component: Bis (2-hydroxyethyl) cocoalkylamine

Acute oral toxicity : LD50: 1,300 mg/kg

Species: Rat

Skin irritation : Species: Rabbit

Result: Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up

to 14 days.

Method: OECD Test Guideline 404

Eye irritation : Species: Rabbit

Result: Risk of serious damage to eyes.

Method: OECD Test Guideline 405

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION:

Ecotoxicology Assessment

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Very toxic to aquatic life with long lasting effects.

Further information on ecology

Hazardous to the ozone layer

Regulation : 40 CFR Protection of Environment; Part 82 Protection of

Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks : This product neither contains, nor was manufactured with a

Class I or Class II ODS as defined by the U.S. Clean Air Act

Section 602 (40 CFR 82, Subpt. A, App.A + B).

INGREDIENTS:

Test result

Component: Bis (2-hydroxyethyl) cocoalkylamine

Ecotoxicity effects

Toxicity to fish : LC50: 0.1 mg/l

Exposure time: 96 h

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

: EC50: > 0.01 - 0.1 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Toxicity to algae : EC50: > 0.01 - 0.1 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

EC10: > 0.0001 - 0.001 mg/l

Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

M-Factor : 10

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC10: > 0.01 - 0.1 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

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Elimination information (persistence and degradability)

Bioaccumulation : Bioconcentration factor (BCF): < 500

> Method: Calculation method Bioaccumulation is unlikely.

: No data available Mobility

: Result: Readily biodegradable. Biodegradability

> Biodegradation: > 60 % Exposure time: 28 d

Method: OECD Test Guideline 301D

GLP: yes

Further information on ecology

Biochemical Oxygen

: No data available Demand (BOD)

13. DISPOSAL CONSIDERATIONS

Product : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Hazardous waste

Dispose of contents/container in accordance with local

regulation.

: Waste must be disposed of in accordance with federal, state

and local environmental control regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.

14. TRANSPORT INFORMATION

International Regulation

IATA-DGR

UN/ID No. : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.

(Alkylamine ethoxylate)

Class : 8 Packing group : 111 Labels : 8 Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

Packing instruction (LQ) : Y841 Environmentally hazardous : yes

IMDG-Code

UN number : UN 2735

Proper shipping name : AMINES, LIQUID, CORROSIVE, N.O.S.

(Alkylamine ethoxylate)

: 8 Class Packing group : III Labels 8 F-A, S-B EmS Code Marine pollutant yes

(Alkylamine ethoxylate)

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation

49 CFR

UN/ID/NA number : UN 2735

Proper shipping name : Amines, liquid, corrosive, n.o.s.

: (Alkylamine ethoxylate)

Class : 8 Packing group : 111 : 8 Labels **ERG Code** : 153 Marine pollutant : ves

(Alkylamine ethoxylate)

Reportable Quantity : This product does not contain an environmentally hazardous

substance per 49 CFR 172.101, Appendix A.

15. REGULATORY INFORMATION

Notification status

CH INV : YES. On the inventory, or in compliance with the inventory

TSCA : YES. All chemical substances in this product are either listed on the TSCA Inventory or in compliance with a TSCA Inventory exemption.

: YES. All components of this product are on the Canadian DSL.

DSL : YES. On the inventory, or in compliance with the inventory **AICS** : YES. On the inventory, or in compliance with the inventory NZloC **ENCS** : YES. On the inventory, or in compliance with the inventory ISHL : YES. On the inventory, or in compliance with the inventory KECI : YES. On the inventory, or in compliance with the inventory : YES. On the inventory, or in compliance with the inventory **PICCS** : YES. On the inventory, or in compliance with the inventory **IECSC**

For explanation of abbreviations, see section 16.

OSHA Hazards : Harmful by ingestion., Corrosive to skin, Corrosive to eyes,

Corrosive to respiratory system.

EPCRA - Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting

requirements of SARA Title III, Section 302.

SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

Polyethylene glycol

25322-68-3

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

.

California Prop. 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

Full text of H-Statements

H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H318 : Causes serious eye damage. H400 : Very toxic to aquatic life.

H410 : Very toxic to aquatic life with long lasting effects.

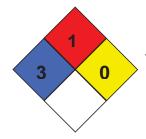
Further information

HMIS Classification : Health Hazard: 3

Flammability: 1 Physical hazards: 0

NFPA Classification : Health Hazard: 3

Fire Hazard: 1 Reactivity Hazard: 0



Notification status explanation

REACH 1907/2006 (EU)

CH INV Switzerland. New notified substances and declared preparations

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|--------------|-----------------------------|--------------------------------------|---------------|
| TSCA | United States 1 | TSCA Inventory | |
| DSL | | estic Substances List (DSL) | |
| AICS | | ory of Chemical Substances (AICS) | |
| NZIoC | | Inventory of Chemical Substances | |
| ENCS | Japan. ENCS - | Existing and New Chemical Substance | ces Inventory |
| ISHL | Japan. ISHL - I | nventory of Chemical Substances | • |
| KECI | Korea. Korean | Existing Chemicals Inventory (KECI) | |
| PICCS | Philippines Inve (PICCS) | entory of Chemicals and Chemical Sul | bstances |
| IECSC | China. Inventory | y of Existing Chemical Substances in | China (IECSC) |
| Further info | rmation | | |
| Revision Dat | e 01/13/2015 | | |

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The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.