

Material Safety Data Sheet

Version: 1.15

Revision Date : 08/13/2010

Date Issued : 08/14/2010

REWOQUAT WE 18 E US

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Trade name : REWOQUAT WE 18 E US
PRODUCT CODE : 207821
CHEMICAL FAMILY : Quaternary Ammonium Compounds

Information on manufacturer/supplier : Evonik Goldschmidt Corporation
914 EAST RANDOLPH ROAD
HOPEWELL, VA 23860

Emergency telephone number (24h) :

Telephone:

CHEMTREC (800) 424-9300
CANUTEC (613) 996-6666
Non-Emergency Phone Number: (800) 732-5616

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration [%]
Ethanaminium, 2-hydroxy-N,N-bis(2-hydroxyethyl)-N-methyl-, esters with C16-18 and C18-unsatd. fatty acids, Me sulfates (salts)	157905-74-3	> 85
Ethanol	64-17-5	< 15

3. HAZARDS IDENTIFICATION

Emergency Overview

Physical Appearance

Form : Liquid to Paste
Colour : Colorless to Pale Yellow
Odour : Alcohol
Water solubility : Dispersible

pH : 2 - 3.5
At 10%, in Isopropanol / Water solvent.

Potential health effects

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- | | |
|-------------------------|--|
| Immediate concerns | : Flammable. Keep away from heat, sparks and open flames. Causes severe eye irritation. May cause permanent eye damage. May cause skin irritation. Vapors cause irritation. Avoid contact with skin, eyes and clothing. Wear protective goggles and gloves when handling this product. Use only with adequate ventilation. Wash thoroughly after handling. |
| Eyes | : Liquid causes severe eye irritation; may cause permanent damage. High concentrations (>1000ppm) of ethanol vapors can also cause eye irritation. |
| Skin | : Prolonged and repeated liquid contact can cause defatting and drying of the skin, which may result in skin irritation and dermatitis. |
| Ingestion | : May cause nausea, vomiting, abdominal pain, flushing of the face, hypotension, weakness and loss of consciousness; or abnormal liver and kidney functions. |
| Inhalation | : High concentrations (>1000 ppm) of ethanol vapor can cause irritation of the respiratory tract, headache, and, if continued, drowsiness, unconsciousness, etc. |
| Primary routes of entry | : Eyes, Skin, Inhalation, Ingestion |
| Target organs | : Eyes, Skin, Respiratory Tract, Digestive System |
| Carcinogenicity | : This product contains component(s) that are listed on one or more of the following lists: NTP, IARC, ACGIH, or OSHA as a carcinogen. |

4. FIRST AID MEASURES

- | | |
|-----------|--|
| Eyes | : Immediately flush with large amounts of water for at least 15 minutes or more. Lifting upper and lower lids intermittently. See a physician or ophthalmologist and show this data sheet. |
| Skin | : Wash affected area with soap and water. Launder clothing before reuse. |
| Ingestion | : Immediately drink two large glasses of water. Call a physician. |

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Inhalation : Remove individual from site of exposure to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

5. FIRE-FIGHTING MEASURES

Flash point : 76 °F
Method: Penskey-Marten CC

Ignition temperature : Not Available

Suitable extinguishing media : Dry chemical, water fog, alcohol foam

Products in case of fire : Burning can produce major amounts of carbon monoxide, carbon dioxide, sulfur dioxide, and nitrogen oxide.

Further information : Water or foam may cause frothing which can be violent, especially if sprayed into containers of hot, burning liquid.

Special protective equipment for fire-fighters : As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

OSHA flammable class : Flammable Liquid, Class IC

6. ACCIDENTAL RELEASE MEASURES

Methods for cleaning up / taking up : Small spills :
Extinguish all nearby sources of ignition. Control spill with adsorbent pads or booms. If necessary, apply granular or loose sorbent to spill. When adsorbed, sweep or otherwise collect and dispose of properly.
Large spills :
Eliminate all sources of ignition, and extinguish nearby heat sources and open flames. Stop spill at source, dike area of spill to prevent from spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

Release Notes :

US regulations require reporting spills of this material that could reach any surface waters

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In case of accident or road spill notify :

Telephone:

CHEMTREC USA (800) 424-9300
CANUTEC Canada (613) 996-6666
CHEMTREC (other countries) (International code)+1-202-483-7616

7. HANDLING AND STORAGE

General Procedures Handling

Advice on protection against fire and explosion : Vapors are heavier than air and may travel along the ground or be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking, electric motors or other ignition sources at locations distant from material handling point. Never use cutting or welding torch on or near drum (even empty); product (or even residue) can ignite explosively. All five gallon pails and larger metal containers should be grounded. Care should be taken to avoid static discharge when transferring liquid to and from nonconductive containers.

Storage

Requirements for storage areas and containers : Containers should be grounded when pouring. Avoid free fall of liquid in excess of a few inches, unless adequate grounding is first established. Keep away from heat, sparks, and open flames. Based on the product flash point and vapor pressure, suitable storage should be provided in accordance with OSHA, 29 CFR 1910.106. Empty containers may contain product residue, including flammable or explosive vapors. Do not cut, puncture, or weld on or near container. All label warnings must be observed until the container has been cleaned or reconditioned.

Further information : Exercise caution when handling contents of the container. Wash with soap and water before eating, drinking, smoking, or using toilet facilities. Whenever possible, use mechanical means to move large and/or heavy objects to help prevent back injuries.

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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA hazardous components (29 CFR 1910.1200)

Components	CAS-No.	Base	Type	Value	Note
Ethanol	64-17-5	US. ACGIH Threshold Limit Values	Time Weighted Average (TWA):	1,000 ppm	
Ethanol	64-17-5	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)	PEL:	1,000 ppm 1,900 mg/m3	

Personal protective equipment

- Hygiene measures : No smoking, eating or drinking allowed when using this product. Wash hands before breaks and at end of work shift. Avoid Skin and Eye Contact.
- Respiratory protection : A NIOSH/MSHA approved respirator with organic vapor canister or self-contained breathing apparatus is recommended if there is insufficient ventilation to maintain exposures below the PEL and/or level of comfort.
- Hand protection : Wear protective gloves such as: Neoprene or Buna-N.
- Eye protection : Chemical splash proof goggles.
- Engineering controls : Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid to Paste
- Colour : Colorless to Pale Yellow
- Odour : Alcohol
- Boiling point : 172 °F
- Vapour pressure : 59.5 hPa
at 68 °F
- Density : 0.96 g/cm3

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Weight per volume : 8.00 Lb/Gal
Relative vapour density : Heavier than air
Water solubility : Dispersible
pH : approx. 2 - 3.5
At 10%, in Isopropanol / Water solvent.
Evaporation rate : Slower than ether

10. STABILITY AND REACTIVITY

Conditions to avoid : Avoid heat, flame and contact with strong oxidizing agents.
Hazardous polymerisation : No
Stability : Yes

11. TOXICOLOGICAL INFORMATION

Skin irritation : This material is irritating to skin.
Eye irritation : This material is irritating to the eyes.

12. ECOLOGICAL INFORMATION

Further ecological information

Ecological notes : This product is toxic to fish: prevent run-off to sewers, streams or other bodies of water.

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13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, state, and federal regulations.

Product disposal and disposal requirements : This product is an Ignitable waste (D001) under current RCRA regulations. Incineration in an authorized and permitted thermal treatment facility is recommended. Inquire of a permitted TSD facility for other options.

Contaminated packaging : If empty contaminated containers are recycled or disposed of, the receiver must be informed about possible hazards.

14. TRANSPORT INFORMATION

Sea transport

IMDG:

Class : 3
UN-No : 1170
PG : III
MFAG :
EmS : F-E S-D
Proper shipping name : ETHANOL SOLUTION
Hazard release :
Label : 3

Air transport

ICAO/IATA:

Class : 3
UN-No : 1170
PG : III
Proper shipping name : Ethanol solution
Hazard release :
Label : 3

DOT (Department of Transportation)

CFR Road:

Class : 3
UN-No : 1170
PG : III
Proper shipping name : Ethanol solutions
Correct technical name :
Label : 3

CFR Rail:

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Class : 3
UN-No : 1170
PG : III
Proper shipping name : Ethanol solutions
Correct technical name :
Label : 3

CANADA Transport of Dangerous goods

TDG Road:

Class : 3
UN-No : 1170
PG : III
Proper shipping name : ETHANOL SOLUTION
Correct technical name :
Label : 3

TDG Rail:

Class : 3
UN-No : 1170
PG : III
Proper shipping name : ETHANOL SOLUTION
Correct technical name :
Label : 3

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15. REGULATORY INFORMATION

United States

SARA Section 311/312 : Fire: Yes
Pressure generating: No
Reactivity: No
Acute: Yes
Chronic: No

SARA Sections : SECTION 313
Notification : No
This product contains no SARA Title III, Section 313 listed chemicals.

Notification Status : TSCA
Notification : Yes
All intentional ingredients are listed in the TSCA Inventory or comply with TSCA Polymer Exemption criteria per 40 CFR 723.

State regulations : MASS. RIGHT TO KNOW
Notification : Yes

RHODE ISLAND RTK
Notification : Yes

NEW JERSEY RTK
Notification : Yes

PENNSYLVANIA RTK
Notification : Yes

California Proposition 65 Statement : Notification : No
This product does not contain any substance(s) which are defined by the state of California to cause cancer, birth defects, or other reproductive effects.

CERCLA : CAS 64-17-5 :

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Canada

: **WHMIS CLASSIFICATION**
Class B, Division 2, Flammable Liquid
Class D, Division 2, Subdivision B

This product contains component(s) that are listed on the
WHMIS Ingredient Disclosure List.

Components	CAS-No.
Ethanol	64-17-5

Notification Status

: Canadian Environmental Protection Act
DSL
Notification : Yes
All intentional ingredients are listed on the DSL (Domestic
Substance List) or have been notified pursuant to the NSN
regulations.

16. OTHER INFORMATION

HMIS Codes

: Fire : 3
Health : 3
Physical Hazard : 0
Protection : X

Manufacturer disclaimer

: While the information and recommendations contained herein
are believed to be accurate, we make no warranty with respect
hereto and disclaim all liability from reliance thereon

END OF MSDS