

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: VARISOFT EQ 65 MB

Chemical name:
MDEA Esterquat

Other means of identification

Recommended restrictions

Recommended use: Industrial Use
Restrictions on use: None known.

Manufacturer/Importer/Distributor Information

Company Name : Evonik Corporation
299 Jefferson Road
Parsippany, NJ 07054
USA

Telephone : +1 973 929 8000

Fax : +1 973 929 8040

E-mail : product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health : +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency : +1 800 681 9531 (CHEMTREC MEXICO)
+1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Not classified

Label Elements

Hazard Symbol: No symbol

Signal Word: No signal word.

Hazard Statement: Not applicable

Precautionary Statements

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Chemical name:
MDEA Esterquat

Mixtures

Chemical Identity	CAS number	Content in percent (%) [*]
1-Tetradecanol	112-72-1	>=0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Remove contaminated clothing immediately and store/dispose of safely

Inhalation: Remove the casualty into fresh air and keep him calm. In the event of symptoms take medical treatment.

Skin Contact: In case of contact with skin wash off immediately with plenty of water

Eye contact: In case of contact with eyes, rinse thoroughly with water and seek medical advice.

Ingestion: Thoroughly clean the mouth with water. Call for medical advice immediately. Show this data sheet.

Personal Protection for First-aid Responders: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

Most important symptoms/effects, acute and delayed

Symptoms: No special hints.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

5. Fire-fighting measures

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

Suitable (and unsuitable) extinguishing media

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

Unsuitable extinguishing media: No data available.

Specific hazards arising from the chemical: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: None known.

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.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: High risk of slipping due to leakage/spillage of product. Use personal protective equipment.

Methods and material for containment and cleaning up: Pick up mechanically Dispose of absorbed material in accordance with the regulations.

Environmental Precautions: Do not allow to enter drains or waterways Do not discharge into the subsoil/soil.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

Safe handling advice: No data available.

Contact avoidance measures: No data available.

Hygiene measures: Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately.

Storage

Safe storage conditions: 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. Keep in closed or covered containers when not in use. Store in cool, dry place with adequate ventilation. Do not store near heat or open flame. Protect from heat and exposure to direct sunlight

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.
 Hazardous components without workplace control parameters

Appropriate Engineering Controls

Local exhaust ventilation is recommended if vapors, mists or aerosols are generated. Otherwise, use general exhaust ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection:	Chemical goggles or safety glasses recommended.
Skin Protection	
Hand Protection:	Additional Information: PVC gloves
Skin and Body Protection:	light protective clothing a protective ointment is recommended.
Respiratory Protection:	in case of formation of vapours/dusts: Wear dust/mist respirator (MSHA/NIOSH TC-21C) or NIOSH approved respirator with N,R,P or HE filter.
Hygiene measures:	Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when working. Remove soiled or soaked clothing immediately.

9. Physical and chemical properties
Appearance

Physical state:	solid
Form:	Flakes
Color:	from white to cream colour
Odor:	Fatty
Odor Threshold:	not measured
pH:	3 - 5 (50 °C) At 5%, in Isopropanol/Water solvent
Melting Point:	79 - 81 °C
Boiling Point:	not determined
Flash Point:	> 212 °F (Penskey-Marten CC)
Evaporation Rate:	not measured
Flammability (solid, gas):	no data available

Explosive limit - upper (%):	not measured
Explosive limit - lower (%):	not measured
Vapor pressure:	not measured not measured
Vapor density (air=1):	not measured
Density:	approx. 0.87 g/cm ³ (90 °C)
Relative density:	No data available.

Solubility(ies)

Solubility in Water:	Dispersible
Solubility (other):	not measured
Partition coefficient (n-octanol/water):	not measured
Self Ignition Temperature:	not measured
Decomposition Temperature:	Not measured
Kinematic viscosity:	No data available.
Dynamic viscosity:	approx. 200 mPa.s (90 °C, Brookfield)

Other information

Explosive properties:	not measured
Oxidizing properties:	not measured
Minimum ignition temperature:	not determined
Metal Corrosion:	not measured

10. Stability and reactivity

Reactivity:	see section "Possibility of hazardous reactions"
Chemical Stability:	The product is stable under normal conditions.
Possibility of hazardous reactions:	No
Conditions to avoid:	Avoid contact with strong oxidizing agents.
Incompatible Materials:	Unknown
Hazardous Decomposition Products:	No data available.

11. Toxicological information**Information on likely routes of exposure**

Inhalation:	If handled correctly, not a relevant route of exposure. Information on effects are given below.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Information on toxicological effects**Acute toxicity (list all possible routes of exposure)**

Oral	
Product:	LD 50 (Rat): > 2,000 mg/kg
Dermal	
Product:	no data available
Inhalation	
Product:	no data available

Repeated dose toxicity	
Product:	no data available

Skin Corrosion/Irritation	
Product:	The toxic effects of this material is not known.

Serious Eye Damage/Eye Irritation

Product: The toxic effects of this material is not known.
The toxic effects of this material is not known.

Respiratory or Skin Sensitization

Product: no data available

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

In vivo

Product: No data available.

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: no data available

Specific Target Organ Toxicity - Repeated Exposure

Product: no data available

Aspiration Hazard

Product: Not classified

Other effects:

Toxicological data refer to the main component. Due to the composition of the product it cannot be excluded: Irritates eyes and skin

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Components:

1-Tetradecanol LC 50 (Fish, 96 h): > 100 mg/l

Aquatic Invertebrates

Product: No data available.

Components:

1-Tetradecanol EC 50 (Daphnia magna (Water flea), 48 h): > 1 - 10 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

1-Tetradecanol EC 50 (Alga, 72 h): > 10 - 100 mg/l

Persistence and Degradability

Biodegradation

Product: 60 % Values refer to the main component.
60 % Product

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: not measured

Mobility in soil:

No data available.

Components:

1-Tetradecanol No data available.

Other adverse effects:

Do not allow the product to enter soil or water ways.

13. Disposal considerations

Disposal methods:

Incinerate in an authorized and permitted thermal treatment facility or chemical or biological treatment in authorized and permitted facilities is recommended.

Contaminated Packaging:

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

14. Transport information

Domestic regulation

49 CFR

Not regulated as a dangerous good

International Regulations**UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

15. Regulatory information**US Federal Regulations****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methane, chloro-	100 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)**Hazard categories**

Not classified

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**SARA 311/312 Hazardous Chemical**

<u>Chemical Identity</u>	<u>Threshold Planning Quantity</u>
--------------------------	------------------------------------

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methane, chloro-	10000 lbs

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Methane, chloro-, which is [are] known to the State of California to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision

HMIS Hazard ID

Health	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	X

Ask supervisor or safety specialist for handling instructions

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/14/2019

Version #: 1.0

Further Information: CTFA: complies

Revision Information: Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.