

SAFETY DATA SHEET (EC 1907/2006)

VARISOFT EQ 65 PELLETS

VA-No.

04248249

Version

1.6 / GB

Revision date

16.02.2015

Print Date

26.06.2015

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1. Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : VARISOFT EQ 65 PELLETS

Chemical Name : MDEA Esterquat

1.2. Relevant identified uses of the substance or mixture and uses advised against

Relevant applications identified : Industrial Use

Applications which are not advised : None known.

1.3. Details of the supplier of the safety data sheet

Company : Evonik Industries AG
Consumer Specialties
Goldschmidtstr. 100
D-45127 Essen

Telephone : +49 (0)201 173-01

Telefax : +49 (0)201 173-3000

E-mail : productsafety-cs@evonik.com

1.4. Emergency telephone number

Emergency information : +49 (0)201 173-01 (Phone)
+49 (0)201 173-1854 (Fax)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

No particular hazards known.

2.2. Label elements

The product does not require a hazard warning label in accordance with GHS. The normal safety precautions for the handling of chemicals must be observed.

2.3. Other hazards

None known

3. Composition/information on ingredients

MDEA Esterquat

3.1. Substances

-

3.2. Mixtures

Information on ingredients / Hazardous components as per EU-CLP Regulation (EC) No. 1272/2008

No hazardous ingredients

No hazardous ingredients

1-Tetradecanol	112-72-1 204-000-3 01-2119485910-33	>= 1 % - < 2,5 %	H319, 2 , Eye Irrit.
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Page 2 / 9**Information on ingredients / Hazardous components as per Directive 67/548/EC or Directive 1999/45/EC**

No hazardous ingredients

No hazardous ingredients

1-Tetradecanol	112-72-1 204-000-3 01-2119485910-33	>= 1 % - < 2,5 %	Xi; R36
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Texts of H phrases, see in Chapter 16
See chapter 16 for text of risk phrases**4. First aid measures****4.1. Description of first aid measures**

- General advice : Remove soiled or soaked clothing immediately
- Inhalation : Ensure supply of fresh air.
In the event of symptoms seek medical advice.
- Skin contact : In case of contact with skin wash off immediately with plenty of water
Consult a doctor if skin irritation persists.
- Eye contact : In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist,
seek medical advice.
- Ingestion : Thoroughly clean the mouth with water
In the event of symptoms seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms : No special hints.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures**5.1. Extinguishing media**

- Suitable extinguishing media : foam, carbon dioxide, dry powder, water spray.
- Unsuitable extinguishing media : Full water jet

5.2. Special hazards arising from the substance or mixture

- In the event of fire the following can be released:
- Nitrogen oxides (NO_x)
 - carbon dioxide, carbon monoxide
 - Hydrogen chloride (HCl)

5.3. Advice for firefighters

- Do not inhale explosion and/or combustion gases
Use self-contained breathing apparatus
- Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

- High risk of slipping due to leakage/spillage of product.
Use personal protective equipment.
Ensure adequate ventilation.
Keep away sources of ignition.

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6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Pick up mechanically
Dispose of absorbed material in accordance with the regulations.

6.4. Reference to other sections

For further information on exposure monitoring and disposal see sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling : Provide good ventilation of working area (local exhaust ventilation if necessary).
Avoid raising dust.

Hygiene measures : Keep away from foodstuffs and beverages.
Wash hands before breaks and after work.
Do not eat, drink or smoke when working.

General protective measures : Do not inhale vapours or dust
Avoid contact with eyes and skin

7.2. Conditions for safe storage, including any incompatibilities

Prevention of fire and explosion

Information : Avoid formation of dust

Storage

Information :

Further information on storage conditions : Keep container dry in a cool, well-ventilated place
Protect from heat and direct sunlight

German storage class : 11

7.3. Specific end use(s)

No further recommendations.

8. Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)

Ingredients	CAS-No.	Statutory basis/list (Update)	Value type (Form of exposure; Expressed as)	Value	Short-term
Hexadecanol	36653-82-4	TRGS 900 (2006)		20 ml/m ³ 200 mg/m ³	1(l)
1-Octadecanol	112-92-5	TRGS 900 (2006)		20 ml/m ³ 224 mg/m ³	1(l)
1-Tetradecanol	112-72-1	TRGS 900 (2006)		20 ml/m ³ 178 mg/m ³	1(l)

DNEL : No DNEL/DMEL values on file.

PNEC : No PNEC values on file.

8.2. Exposure controls

Eye protection : This product is not classified as a hazardous substance. Any necessity for eye

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- protection must be determined within the scope of a risk assessment.
- Hand protection : PVC gloves
The protective gloves to be worn must satisfy the specifications of EC Guideline 89/686/EEC and the resulting Standard EN374.
- Body Protection : protective clothing
- Respiratory protection : in case of formation of vapours/dusts:
Short term: filter apparatus, combination filter A-P2

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : solid
- Form : Flakes
- Colour : yellow
- Odour : characteristic
- Odour Threshold : not measured
- pH : 3 - 6
50 g/l
- Remarks: Isopropanol/water
- Melting point : Melting point/range
75 - 80 °C
- Boiling point : not measured
- Flash point : > 99 °C
Method: DIN EN ISO 2719
- Evaporation rate : not measured
- Flammability : no data available
- Upper Explosion/Ignition Limit : not measured
- Lower explosion limit : not measured
- Vapour pressure :
- Relative vapour density : not measured
- Relative density : no data available
- Solubility(ies) : not measured
- Water solubility : dispersible
- Partition coefficient: n-octanol/water : not measured
- Autoignition temperature : not measured
- Thermal : not measured

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decomposition

Viscosity, kinematic : no data available

Viscosity, dynamic : ca. 200 mPa·s
(90 °C)
Method: Brookfield

Explosive properties : not measured

Oxidising properties : not measured

9.2. Other information

Density : ca. 0,87 g/cm³
(90 °C)

Metal corrosion : not measured

Ignition temperature : not measured

10. Stability and reactivity

10.1. Reactivity

see section "Possibility of hazardous reactions"

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions with proper storage and handling.

10.4. Conditions to avoid

10.5. Incompatible materials

Unknown

10.6. Hazardous decomposition products

None with proper storage and handling.

11. Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : LD50
Species: Rat
Dose: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute toxicity (inhalation) : no data available

Acute toxicity (dermal) : no data available

Respiratory/skin sensitization : no data available

Repeated dose toxicity : no data available

CMR assessment

Carcinogenicity : no data available



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Mutagenicity	: no data available
Teratogenicity	: no data available
Toxicity to reproduction	: no data available
Specific Target Organ Toxicity - Single exposure	: no data available
Specific Target Organ Toxicity - Repeated exposure	: no data available
Aspiration hazard	: No aspiration toxicity classification
Other information	: 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**Ecotoxicology Assessment**

Acute aquatic toxicity : no data available

Chronic aquatic toxicity : no data available

12.1. ToxicityAquatic toxicity, fish : Species: Brachydanio rerio
Exposure duration: 96 h
LC50: 5,2 mg/l
Method: OECD 203
Remarks: Values refer to the main component.Aquatic toxicity, invertebrates : Species: Daphnia magna
Exposure duration: 24 h
EC50: 14,8 mg/l
Values refer to the main component.Aquatic toxicity, algae / aquatic plants : Species: Selenastrum capricornutum
Exposure duration: 96 h
EC50: 2,9 mg/l
Remarks: Values refer to the main component.

Toxicity in microorganisms : no data available

chronic toxicity in fish : no data available

Chronic toxicity in aquatic Invertebrates : no data available

Toxicity in organisms which live in the soil : no data available

Toxicity in terrestrial plants : no data available

Toxicity to Above-Ground Organisms : no data available

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12.2. Persistence and degradability

Photodegradation : no data available

Biological degradability : aerobic
Biological degradability: >60 %
Result: readily biodegradable
Method: OECD 301 B
Remarks: Values refer to the main component.

aerobic
Biological degradability: >60 %
Method: OECD 301 F
Remarks: Product

Physico-chemical removability : no data available

Biochemical Oxygen Demand (BOD) : no data available

Chemical Oxygen Demand (COD) : no data available

relation of BOD/COD : no data available

Dissolved organic carbon (DOC) : no data available

Adsorbed organic bound halogens (AOX) : no data available

Distribution among environmental compartments : no data available

12.3. Bioaccumulative potential

Bioaccumulation : no data available

12.4. Mobility in soil

Environmental distribution : no data available

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment : no data available

12.6. Other adverse effects

General Information : The product is considered to be a water pollutant (German law).
Do not allow the product to enter soil or water ways.

13. Disposal considerations

13.1. Waste treatment methods

Product : In accordance with local authority regulations, take to special waste incineration plant

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



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14. Transport information

Not dangerous according to transport regulations.

14.1.	UN number:	--
14.2.	UN proper shipping name:	--
14.3.	Transport hazard class(es):	--
14.4.	Packing group:	--
14.5.	Environmental hazards:	--
14.6.	Special precautions for user:	No

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National legislation

Technical instructions : 5.2.1
on Air Quality

Major Accident : ---
Hazard Legislation

Water contaminating : water endangering
class (Germany) Classification acc. to German law

Risk classification : ---
according to
BetrSichV (Germany)

Other regulations : none

15.2. Chemical safety assessment

Chemical safety : No chemical safety assessment was carried out for this product.
assessment

16. Other information

List of references

Other information : Comply with national laws regulating employee instruction.
Revision date : 16.02.2015

Relevant H phrases from chapter 3

H319 : Causes serious eye irritation.

Relevant R phrases from chapter 3

R36 : Irritating to eyes.

Changes since the last version are highlighted in the margin. This version replaces all previous versions. This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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**Legend**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADNR	European agreement concerning the international carriage of dangerous goods by inland waterways (ADN)
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BetrSichV	German Ordinance on Industrial Safety and Health
c.c.	closed cup
CAS	Chemical Abstract Services
CESIO	European Committee of Organic Surfactants and their Intermediates
ChemG	German Chemicals Act
CMR	carcinogenic-mutagenic-toxic for reproduction
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EC50	half maximal effective concentration
GefStoffV	German Ordinance on Hazardous Substances
GGVSEB	German ordinance for road, rail and inland waterway transportation of dangerous goods
GGVSee	German ordinance for sea transportation of dangerous goods
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
ISO	International Organization For Standardization
LOAEL	Lowest observed adverse effect level
LOEL	Lowest observed effect level
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
REACH	REACH registration
RID	Convention concerning International Carriage by Rail
STOT	Specific Target Organ Toxicity
SVHC	Substances of Very High Concern
TA	Technical Instructions
TPR	Third Party Representative (Art. 4)
TRGS	Technical Rules for Hazardous Substances
VCi	German chemical industry association
vPvB	very persistent, very bioaccumulative
VOC	volatile organic compounds
VwVwS	German Administrative Regulation on the Classification of Substances Hazardous to Waters into Water Hazard Classes
WGK	Water Hazard Class
WHO	World Health Organization



