

Product: **KERCOAT® 500**

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SDS No.: 005337-001 (Version 3.0)

Date 29.05.2015 (Cancel and replace : 03.12.2012)

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

1.1. Identification of the product

Identification of the mixture: KERCOAT® 500

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

Use of the Substance/Mixture : Surface treatment (glass)

1.3. Details of the supplier of the safety data sheet

Supplier	Arkema ADDITIFS FONCTIONNELS 420 rue d'Estienne d'Orves 92705 Colombes Cedex, France Téléphone : +33 (0)1 49 00 80 80 Télécopie : +33 (0)1 49 00 83 96 http://www.arkema.com pars-drp-fds@arkema.com
E-mail address	

1.4. Emergency telephone number

+33 1 49 00 77 77
European emergency phone number : 112

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

Skin sensitisation, 1, H317
Eye irritation, 2, H319
Acute aquatic toxicity, 1, H400
Chronic aquatic toxicity, 2, H411

Classification according to EU Directives 1999/45/EC :

Xi; R36
R43
N; R50

Additional information:

For the full text of the R, H, EUH-phrases mentioned in this Section, see Section 16.

2.2. Label elements

Label elements (REGULATION (EC) No 1272/2008):

Hazard pictograms:



Signal word:

Warning

Hazard statements:

- H317 : May cause an allergic skin reaction.
 H319 : Causes serious eye irritation.
 H400 : Very toxic to aquatic life.
 H411 : Toxic to aquatic life with long lasting effects.

Precautionary statements:

Prevention:

- P260 : Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
 P273 : Avoid release to the environment.
 P280 : Wear protective gloves/protective clothing/eye protection/face protection.

Response:

- P333 + P313 : If skin irritation or rash occurs: Get medical advice/ attention.
 P305 + P351 + P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 : If eye irritation persists: Get medical advice/ attention.

2.3. Other hazards**Potential health effects:**

Irritation: May cause sensitisation by skin contact.

Physical and chemical hazards:

At high temperature : Dry residue : Thermal decomposition giving toxic and corrosive products
 Decomposition products: See chapter 10

Other:

Results of PBT and vPvB assessment : According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2. Mixtures****Chemical nature of the mixture¹:**

AQUEOUS DISPERSION OF POLYETHYLENE WAX and MODIFIED POLYETHYLENE WAX
 Presence of : SURFACTANTS

Hazardous components (according to Regulation (EC) No. 1907/2006) :

Chemical Name ¹ & REACH Registration Number ²	EC-No.	CAS-No.	Concentration	Classification Directive 67/548/EEC	Classification REGULATION (EC) No 1272/2008
Alkylamine derivatives	263-177-5	61791-44-4	< 5 %	Xn; R22 C; R34 N; R50/53	Acute Tox. 4; H302 Skin Corr. 1C; H314 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 M-Factor Acute = 10 M-Factor Chronic = 1
Alcohols, C11-15-secondary, ethoxylated (20EO)	–	68131-40-8	< 2,5 %	Xn; R22 Xi; R41	Acute Tox. 4 (Oral); H302 Eye Dam. 1; H318
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-C8-18 (even numbered) acyl derivs., hydroxides, inner salts (01-2119488533-30)	263-058-8	61789-40-0	< 1,5 %	Xi; R41	Eye Dam. 1; H318
Acetic acid (01-2119475328-30) (N° ANNEX: 607-002-00-6)	200-580-7	64-19-7	< 2,5 %	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314 Eye Dam. 1; H318

¹: See chapter 14 for Proper Shipping Name

²: See the text of the regulation for applicable exceptions or provisions : The transition time according to REACH Regulation, Article 23, is still not expired.

For the full text of the R, H, EUH-phrases mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1. Description of necessary first-aid measures:

General advice:

Take off immediately all contaminated clothing.

Inhalation:

Inhalation of vapours/mists Move to fresh air. Oxygen or artificial respiration if needed. In case of persistent problems : Consult a physician.

Skin contact:

Wash immediately, abundantly and thoroughly with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact:

Wash open eyes immediately, abundantly and thoroughly for at least 15 minutes. Consult an ophthalmologist.

Ingestion:

Do not induce vomiting, rinse mouth and lips with plenty of water if the subject is conscious, then hospitalize.

Protection of first-aiders:

In case of insufficient ventilation, wear suitable respiratory equipment. Protective suit

4.2. Most important symptoms/effects, acute and delayed: No data available.

4.3. Indication of immediate medical attention and special treatment needed, if necessary: No data available.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: Water spray, Carbon dioxide (CO₂), Foam, Dry powder

5.2. Special hazards arising from the substance or mixture:

At high temperature :

Dry residue :

Thermal decomposition giving toxic and corrosive products :

Carbon oxides, Nitrogen oxides (NO_x)

5.3. Advice for firefighters:

Specific methods:

In case of fire, remove exposed containers.

Special protective actions for fire-fighters:

Wear self-contained breathing apparatus and protective suit.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Prohibit contact with skin and eyes. In case of insufficient ventilation, wear suitable respiratory equipment Ensure adequate ventilation.

6.2. Environmental precautions:

Do not release into the environment. Do not let product enter drains.

6.3. Methods and materials for containment and cleaning up:

Recovery:

Recover the product and place in a dry labelled container. Small quantities : Soak up with inert absorbent material (Vermiculite, Clean sand).
Rinse with water. Recover waste water for processing later.

Elimination:

Destroy the product by incineration (in accordance with local and national regulations).

6.4. Reference to other sections: None.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Technical measures/Precautions:

Storage and handling precautions applicable to products: Liquid. Irritant. Sensitizing. Dangerous for the environment

Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. Provide self-contained breathing apparatus nearby (for emergency intervention).

Safe handling advice:

Avoid splashing when handling. Wear breathing apparatus in case of spraying. Remove all sources of ignition.

Hygiene measures:

Take off immediately all contaminated clothing. Prohibit contact with skin and eyes. Avoid exposure to vapour. When using do not eat, drink or smoke.

Wash hands after handling. Remove contaminated clothing and protective equipment before entering eating areas.

7.2. Conditions for safe storage, including any incompatibilities:

Keep tightly closed in a dry and cool place. Provide a catch-tank in a bunded area. Provide impermeable floor. Store away from frost.

Packaging material:

Recommended: High density polyethylene (HDPE)

7.3. Specific end use(s): None.**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters:****Exposure Limit Values****Acetic acid**

Source	Date	Value type	Value (ppm)	Value (mg/m3)	Remarks
EU ELV	12 2009	TWA	10	25	Indicative value
ACGIH (US)	02 2012	TWA	10	–	–
ACGIH (US)	02 2012	STEL	15	–	–

Derived No Effect Level (DNEL):

This information is not required.

Predicted No Effect Concentration:

This information is not required.

8.2. Exposure controls:**General protective measures:**

Ensure sufficient air exchange and/or exhaust in work areas

Personal protective equipment:

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment.

In the case of hazardous fumes, wear self contained breathing apparatus.

Hand protection:

PVC gloves

Eye/face protection:

Safety glasses with side-shields

Skin and body protection:

Protective suit

Environmental exposure controls: See chapter 6

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1. Information on basic physical and chemical properties****Appearance:**

Physical state (20°C):

liquid

Form:

cloudy

Colour:

Whitish.

Odour:

Characteristic and slight

Olfactory threshold:

No data available.

pH:

Temperature 20 °C, pH approx. 5

Melting point/range :

No data available

Boiling point/boiling range :

approx. 100 °C (water)

Flash point:

No flash point in test conditions

Evaporation rate:

No data available.

Flammability (solid, gas):

Flammability:

Not applicable

Vapour pressure:

No data available.

Vapour density:	No data available.
Density:	approx. 1.000 kg/m ³ , at 20 °C
Water solubility:	miscible at 20 °C
Partition coefficient: n-octanol/water:	ALKYLAMINE DERIVATIVES : Through analogy with a comparable product : ALKYLAMINE DERIVATIVES : log Kow : 3,6 , at 25 °C (OECD Test Guideline 123) ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED (20EO) : No data available
Auto-ignition temperature:	Not relevant
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	
Explosivity:	Not relevant (due to the chemical structure)
Oxidizing properties:	Not relevant (due to the chemical structure)

9.2. **Other data:** None.

10. STABILITY AND REACTIVITY

10.1. **Reactivity:** No data available.

10.2. **Chemical stability:**

The product is stable under normal handling and storage conditions.

10.3. **Possibility of hazardous reactions:**

None known.

10.4. **Conditions to avoid:**

Temperatures below 4 °C
(to maintain the technical properties of the product).

10.5. **Incompatible materials to avoid:**

Strong oxidizing agents

10.6. **Hazardous decomposition products:**

At high temperature :
Thermal decomposition giving toxic and corrosive products :
Carbon oxides, Nitrogen oxides (NOx)

11. TOXICOLOGICAL INFORMATION

All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

11.1. **Information on toxicological effects:**

Acute toxicity:

Ingestion: Slightly harmful by ingestion
LD50: > 5.000 mg/kg

Dermal: According to its composition, can be considered as : Slightly harmful in contact with skin

Local effects (Corrosion / Irritation / Serious eye damage):

Skin contact: Non irritating to skin
No skin irritation (OECD Test Guideline 439, reconstructed human epidermis (RHE))

Eye contact: Irritating to eyes.
• In animals : Eye irritation (OECD Test Guideline 405, Rabbit)

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: May cause an allergic skin reaction.
May cause sensitisation by skin contact. (Method: OECD Test Guideline 429 , Mouse)

CMR effects :

Mutagenicity:	Based on the available information, it is not possible to conclude on the hazard potential of this mixture.
Carcinogenicity:	No data available.
Reproductive toxicity:	
Fertility:	Based on the available information, it is not possible to conclude on the hazard potential of this mixture.
Foetal development:	Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

Specific target organ toxicity :

<u>Single exposure :</u>	No data available.
<u>Repeated exposure:</u>	Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

Aspiration hazard: No data available.

12. ECOLOGICAL INFORMATION

Ecotoxicology Assessment: All available data on this product and/or the components quoted in section 3 and/or the analogue substances/metabolites have been taken into account for the hazard assessment.

Acute aquatic toxicity : Very toxic to aquatic life.
Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

12.1. Toxicity :

Fish:	According to available experimental data: Toxic to fish. LC50, 96 h (Danio rerio (zebra fish)) : 7,2 mg/l (Method: OECD Test Guideline 203)
Aquatic invertebrates:	According to available experimental data: Toxic to daphnia. EC50, 48 h (Daphnia magna (Water flea)) : 2,7 mg/l (Method: OECD Test Guideline 202)
Aquatic plants:	According to available experimental data: Very toxic to algae. ErC50, 72 h (Pseudokirchneriella subcapitata) : 0,4 mg/l (Method: OECD Test Guideline 201)
Microorganisms:	
ALKYLAMINE DERIVATIVES :	Through analogy with a comparable product : EC50, 3 h (Activated sludge) : = 167 mg/l (Method: OECD Test Guideline 209)
ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED (20EO) :	No data available

Aquatic toxicity / Long term toxicity:

Aquatic invertebrates:	
ALKYLAMINE DERIVATIVES :	Through analogy with a comparable product : EC10, 21 d (Daphnia magna (Water flea)) : = 1,07 µg/l (Method: OECD Test Guideline 211)
Aquatic plants:	ErC10, 72 h (Pseudokirchneriella subcapitata) : 0,15 mg/l (Method: OECD Test Guideline 201)

Non aquatic toxicity / Acute toxicity :

Toxicity to soil dwelling organisms:	
ALKYLAMINE DERIVATIVES :	Through analogy with a comparable product : NOEC, 56 d (Eisenia fetida (earthworms)) : 500 mg/kg (Soil dw) (Method: OECD Test Guideline 222)

12.2. Persistence and degradability :

Biodegradation (In water):	All the products and/or components quoted in section 3 and/or analogue substances/metabolites are readily biodegradable.
ALKYLAMINE DERIVATIVES :	

Readily biodegradable
> 60 % after 28 d (Method: OECD Test Guideline 301 F)

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED (20EO) :
Readily biodegradable

12.3. Bioaccumulative potential :

Bioaccumulation: Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

ALKYLAMINE DERIVATIVES :
Through analogy with a comparable product :
Partition coefficient: n-octanol/water: log Kow : 3,6 , at 25 °C (Method: OECD Test Guideline 123)

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED (20EO) :
No data available

12.4. Mobility in soil - Distribution among environmental compartments:

Absorption / desorption:
ALKYLAMINE DERIVATIVES :
Through analogy with a comparable product :
log Koc: 4,96 (Method: OECD Test Guideline 106)

12.5. Results of PBT and vPvB assessment :

According to REACH regulation, annex XIII, this mixture contains no substance meeting PBT and vPvB criteria.

12.6. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product: Destroy the product by incineration (in accordance with local and national regulations).

Disposal of packaging: Do not release into the environment. Destroy packaging by incineration at an approved waste disposal site. In accordance with local and national regulations.

14. TRANSPORT INFORMATION

Regulation	14.1. UN number	14.2. UN proper shipping name	14.3. Class*	Label	14.4. PG*	14.5. Environmental hazards	14.6. Special precautions for user
IATA Cargo	3082	Environmentally hazardous substance, liquid, n.o.s.	9	9MI	III	yes	
IATA Passenger	3082	Environmentally hazardous substance, liquid, n.o.s.	9	9MI	III	yes	
IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.	9	9	III	Marine pollutant	EmS Number: F-A, S-F Mark: MP

*Description: 14.3. Transport hazard class(es)
14.4. Packing group

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

15. REGULATORY INFORMATION

Safety data sheets: according to Regulation (EC) No. 1907/2006

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

15.2. Chemical Safety Assessment:

This information is not required.

INVENTORIES:

EINECS: Conforms to
TSCA: Conforms to
DSL: This product contains one or several components listed in the Canadian NDSL list. All other components are on the DSL list.
IECSC (CN): Conforms to
ENCS (JP): Does not conform
ISHL (JP): Does not conform
KECI (KR): Conforms to
PICCS (PH): Does not conform
AICS: Conforms to
NZIOC: Conforms to

16. OTHER INFORMATION

Full text of R, H, EUH-phrases referred to under sections 2 and 3

R10 Flammable.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R36 Irritating to eyes.
R41 Risk of serious damage to eyes.
R43 May cause sensitisation by skin contact.
R50 Very toxic to aquatic organisms.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
2	Classification and labelling	Revisions
3	Dangerous Substances	Revisions
11	11. TOXICOLOGICAL INFORMATION	Revisions
12	12. ECOLOGICAL INFORMATION	Revisions
15	15. REGULATORY INFORMATION	Additions

Thesaurus:

NOAEL : No Observed Adverse Effect Level (NOAEL)
LOAEL : Lowest Observed Adverse Effect Level (LOAEL)
bw : Body weight
food : oral feed
dw : Dry weight
vPvB : very Persistent and very Bioaccumulative
PBT : Persistent, Bioaccumulative and Toxic

This information applies to the PRODUCT AS SUCH and conforming to specifications of ARKEMA. In case of formulations or mixtures, it is necessary to ascertain that a new danger will not appear. The information contained is based on our knowledge of the product, at the date of publishing and it is given quite sincerely. Users are advised of possible additional hazards when the product is used in applications for which it was not intended. This sheet shall only be used and reproduced for prevention and security purposes. The references to legislative, regulatory and codes of practice documents cannot be considered as exhaustive. It is the responsibility of the person receiving the product to refer to the totality of the official documents concerning the use, the possession and the handling of the product. It is also the responsibility of the handlers of the product to pass on to any subsequent persons who will come into contact with the product (usage, storage, cleaning of containers, other processes) the totality of the information contained within this safety data sheet and necessary for safety at work, the protection of health and the protection of environment.

NB: In this document the numerical separator of the thousands is the "." (point), the decimal separator is "," (comma).