

Product: **OPTICOAT® 140**

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SDS No.: 003295-001 (Version 3.0)

Date 29.05.2015 (Cancel and replace : 22.03.2012)

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

1.1. Identification of the product

Identification of the mixture: OPTICOAT® 140

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
Chronic aquatic toxicity, 3, H412

Classification according to EU Directives 1999/45/EC :

R43
R52/53

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):

Hazardous components which must be listed on the label:

Alcohols, C11-15-secondary, ethoxylated

Hazard pictograms:



Signal word:

Warning

Hazard statements:
H317 : May cause an allergic skin reaction.
H412 : Harmful to aquatic life with long lasting effects.

Precautionary statements:
Prevention:
P261 : Avoid breathing 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.

2.3. Other hazards

Potential health effects:
Skin contact: Possible irritation of skin. May cause sensitisation by skin contact.
Eye contact: Possible irritation of eyes

Environmental Effects:
Harmful to fish. Harmful to daphnia. Harmful to algae. Bioaccumulable

Physical and chemical hazards:
Thermal decomposition giving flammable and toxic products
Decomposition products: See chapter 10

Other:
Results of PBT and vPvB assessment : The transition time according to REACH Regulation, Article 23, is still not expired.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Chemical nature of the mixture¹:
Mixture based on:
fatty acid esters

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
Alcohols, C11-15-secondary, ethoxylated	–	68131-40-8	< 20 %	Xi; R43 N; R51/53	Skin Sens. 1B; H317 Aquatic Chronic 2; H411

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. Wash contaminated clothing before re-use.

Inhalation:
Inhalation of vapours due to thermal decomposition : 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. If skin irritation or rash occurs: Get medical advice/ attention.

Eye contact:
Wash immediately, abundantly and thoroughly with water. If irritation persists, consult an ophthalmologist.

Ingestion:
In case of problems : Consult a doctor.

Protection of first-aiders:
In case of insufficient ventilation, wear suitable respiratory equipment.

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 :
Thermal decomposition giving flammable and toxic products:
Carbon oxides

5.3. Advice for firefighters:

Specific methods:
In case of fire nearby, 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 and inhalation of vapours. In case of insufficient ventilation, wear suitable respiratory equipment

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).
After cleaning, flush away traces 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. Sensitizing. Provide appropriate exhaust ventilation at machinery. Provide showers, eye-baths. Provide self-contained breathing apparatus nearby (for emergency intervention).

Safe handling advice:
Wear breathing apparatus in case of spraying.

Hygiene measures:
Remove and wash contaminated clothing before re-use. Prohibit contact with skin and eyes and inhalation of vapours. 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:

Store away from moisture and heat to maintain the technical properties of the product. Store in waterproof containers. Provide impermeable floor. Provide a catch-tank in a bunded area.

Packaging material:
Recommended: Original packaging

7.3. **Specific end use(s):** None.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. **Control parameters:**

Exposure Limit Values Not relevant

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: Gloves (PVC, neoprene, nitrile rubber)
Eye/face protection: Safety glasses
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: Clear - colourless
Colour: colourless
Odour: slight
Olfactory threshold: No data available.
pH: Concentration 10 g/l, Temperature 25 °C, pH approx. 5, (as aqueous solution)
Melting point/range : No data available
Boiling point/boiling range :

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED : 300 °C (Pressure 1.013 hPa) (A2 Method (D. 92/69/ECC))

Flash point: > 100 °C No flash point in test conditions
Evaporation rate: No data available.

Flammability (solid, gas):

Flammability: Not applicable

Vapour pressure : ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED : 0,00013 hPa , at 25 °C (A4 Method (D. 92/69/ECC))

Vapour density: No data available.

Density: 877 kg/m³ , at 25 °C (Standard : DIN 51757)

Water solubility: emulsifiable at 20 °C

Partition coefficient: n-octanol/water: ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED : log Kow : > 6,2 , at 25 °C (OECD Test Guideline 117)

Auto-ignition temperature : ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED : 338 °C at 1.013 hPa (Standard A15 (D. 92/69/EEC))

Decomposition temperature: No data available.

Viscosity, dynamic: 12 mPa.s , at 25 °C

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 at normal handling and storage temperatures.

10.3. Possibility of hazardous reactions: No data available.

10.4. Conditions to avoid:

Store away from moisture and heat to maintain the technical properties of the product. Keep away from open flames, hot surfaces and sources of ignition.

10.5. Incompatible materials to avoid: No data available.

10.6. Hazardous decomposition products:

At high temperature :

Thermal decomposition giving flammable and toxic products:

Carbon oxides

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects:

Acute toxicity:

Ingestion: According to its composition : Slightly harmful by ingestion

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

• In animals : LD50/Rat: > 2.000 mg/kg (Method: OECD Test Guideline 401)

Dermal: According to its composition : Slightly harmful in contact with skin

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

• In animals : LD50/Rat: > 2.000 mg/kg (Method: OECD Test Guideline 402)

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

Skin contact: According to its composition : Possible irritation of skin.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

• In man : Non irritating to skin (Skin corrosion: Human Skin Model Test)

Eye contact: According to its composition : Possible irritation of eyes

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

• In animals : Not irritating to the eyes. (OECD Test Guideline 405, Rabbit)

Respiratory or skin sensitisation:

Inhalation: No data available.

Skin contact: According to its composition : May cause sensitisation by skin contact.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

• In animals : Skin sensitizer (Method : OECD Test Guideline 429 LLNA: Local Lymph Node Assay, Mouse)

CMR effects :

Mutagenicity: According to its composition : Based on the available information, it is not possible to conclude on the hasard potential of this mixture.

In vitro

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

Ames test: Inactive (Method: OECD Test Guideline 471)
Chromosome aberration test in vitro: Inactive (Method: OECD Test Guideline 473)
In vitro gene mutations test on mammalian cells: Inactive (Method: OECD Test Guideline 476)

Carcinogenicity: No data available.

Reproductive toxicity:

Fertility: No data available.

Foetal development: No data available.

Specific target organ toxicity :

Single exposure : No data available.

Repeated exposure: No data available.

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 : Harmful to aquatic life.
Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

12.1. Toxicity :

Fish: According to its composition : , Harmful to fish.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
LC50, 96 h (Oncorhynchus mykiss (rainbow trout)) : 1,53 mg/l (Method: OECD Test Guideline 203)

Aquatic invertebrates: According to its composition : , Harmful to daphnia.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
EC50, 48 h (Daphnia magna (Water flea)) : 5,7 mg/l (Method: OECD Test Guideline 202)

Aquatic plants: According to its composition : , Harmful to algae.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
EC50, 72 h (Pseudokirchneriella subcapitata (microalgae)) : 2,01 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

Microorganisms:

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
EC50, 3 h (Activated sludge) : 824 mg/l (Method: OECD Test Guideline 209)
EC20, 3 h (Activated sludge) : 39 mg/l (Method: OECD Test Guideline 209)

Aquatic toxicity / Long term toxicity:

Aquatic plants:

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
NOEC, 72 h (Pseudokirchneriella subcapitata (green algae)) : 0,305 mg/l (Method: OECD Test Guideline 201, growth rate inhibition)

12.2. Persistence and degradability :

Biodegradation (In water): Based on the available information, it is not possible to conclude on the hazard potential of this mixture.

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :
Readily biodegradable
65 % after 28 d (Method: OECD Test Guideline 301 C)

12.3. Bioaccumulative potential :

Bioaccumulation: From its composition, it must be considered as: **Bioaccumulable**

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

Partition coefficient: n-octanol/water: log Kow : > 6,2 , at 25 °C (Method: OECD Test Guideline 117)

12.4. Mobility in soil - Distribution among environmental compartments:

Absorption / desorption:

ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED :

log Koc: 4,1 - 5,6 (Method: OECD Test Guideline 121)

12.5. Results of PBT and vPvB assessment :

The transition time according to REACH Regulation, Article 23, is still not expired.

12.6. Other adverse effects: None known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment:

Disposal of product:

Do not dispose of waste into sewer. 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

Not classified as dangerous in the meaning of transport regulations.

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:	Does not conform
DSL:	This product contains one or several components that are not on the Canadian DSL nor NDSL lists.
IECSC (CN):	Conforms to
ENCS (JP):	Does not conform
ISHL (JP):	Does not conform
KECI (KR):	Conforms to
PICCS (PH):	The mixture contains a polymer. The monomers for this polymer have been notified., Conforms to
AICS:	Conforms to
NZIOC:	Does not conform

16. OTHER INFORMATION

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

R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H317	May cause an allergic skin reaction.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Update:

Safety datasheet sections which have been updated:		Type:
2	Classification and labelling	Revisions
3	Components	Revisions
11	11. TOXICOLOGICAL INFORMATION	Revisions
12	12. ECOLOGICAL INFORMATION	Revisions
15	Inventories	Revisions

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).