

## Safety data sheet

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

#### 1.1. Product identifier

Code: SCEP337FT\_  
Product name: Fotecoat 1850  
Chemical name and synonym: Water based polymer emulsion

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

Intended use: Aqueous emulsion of water dispersible polymers, pigments and plasticisers for screen printing.

#### 1.3. Details of the supplier of the safety data sheet

Name: SAATI S.P.A.  
Full address: Via Milano, 14  
District and Country: 22070 APPIANO GENTILE (CO) Italy  
Tel.: 0039.31.9711  
Fax: 0039.31.933392  
e-mail address of the competent person responsible for the Safety Data Sheet: info.it@saatichem.com

#### 1.4. Emergency telephone number

For urgent inquiries refer to:  
SAATI SPA - tel+39 0319711 - fax+39 031933392  
CAV Ospedale Niguarda Milano tel+39 0266101029  
CAV IRCCS Fond.Maugeri Pavia tel+39 038224444  
CAV Policlinico Gemelli Roma tel+39 063054343  
CAV Ospedale Cardarelli Napoli tel+39 0817472870

### SECTION 2. Hazards identification.

#### 2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments.  
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:  
Skin sensitization, category 1 H317 May cause an allergic skin reaction.

#### 2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning

Hazard statements:

H317 May cause an allergic skin reaction.  
EUH208 Contains: 5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one  
Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine  
May produce an allergic reaction.

## SECTION 2. Hazards identification. ... / >>

### Precautionary statements:

<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P280</b>	Wear protective gloves.
<b>P302+P352</b>	IF ON SKIN: wash with plenty of water / . . .
<b>P333+P313</b>	If skin irritation or rash occurs: Get medical advice / attention.
<b>P362+P364</b>	Take off contaminated clothing and wash it before reuse.

<b>Contains:</b>	Glycerol, propoxilated, esters with acrylic acid Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)
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### 2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

## SECTION 3. Composition/information on ingredients.

### 3.1. Substances.

Information not relevant.

### 3.2. Mixtures.

#### Contains:

#### Identification. Conc. %. Classification 1272/2008 (CLP).

##### Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)

CAS. 55818-57-0 9 - 25 Skin Sens. 1 H317, Aquatic Chronic 4 H413

EC. 500-130-2

INDEX.

Reg. no. 01-2119490020-53-xxxx

##### Glycerol, propoxilated, esters with acrylic acid

CAS. 52408-84-1 5 - 9 Eye Irrit. 2 H319, Skin Sens. 1 H317

EC. 500-114-5

INDEX.

Reg. no. 01-2119487948-12-xxxx

##### butylaminocarbonyloxyethyl acrilat

CAS. 63225-53-6 1 - 5 Eye Irrit. 2 H319, Skin Irrit. 2 H315, EUH204

EC. 264-036-0

INDEX.

##### 2-hydroxy-2-methyl propiophenone

CAS. 7473-98-5 1 - 5 Acute Tox. 4 H302

EC. 231-272-0

INDEX.

Reg. no. 01-2119472306-39-xxxx

##### Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine

CAS. 75980-60-8 0,5 - 1 Repr. 2 H361f, Skin Sens. 1 H317, Aquatic Chronic 2 H411

EC. 278-355-8

INDEX. 015-203-00-X

Reg. no. 01-2119972295-29-xxxx

Note: Upper limit is not included into the range.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## SECTION 4. First aid measures.

### 4.1. Description of first aid measures.

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

For symptoms and effects caused by the contained substances, see chap. 11.

## SECTION 4. First aid measures. ... / >>

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

Information not available.

## SECTION 5. Firefighting measures.

### 5.1. Extinguishing media.

SUITABLE EXTINGUISHING EQUIPMENT

Choose the most appropriate extinguishing equipment for the specific case.

UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture.

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

The product is neither flammable nor combustible.

### 5.3. Advice for firefighters.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

## SECTION 6. Accidental release measures.

### 6.1. Personal precautions, protective equipment and emergency procedures.

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

### 6.2. Environmental precautions.

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

### 6.3. Methods and material for containment and cleaning up.

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10.

Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Check incompatibility for container material in section 7. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

### 6.4. Reference to other sections.

Any information on personal protection and disposal is given in sections 8 and 13.

## SECTION 7. Handling and storage.

### 7.1. Precautions for safe handling.

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire.

Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

### 7.2. Conditions for safe storage, including any incompatibilities.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany):

12

### 7.3. Specific end use(s).

Information not available.

## SECTION 8. Exposure controls/personal protection.

### 8.1. Control parameters.

#### Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)

##### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,1	mg/L
Normal value in marine water	0,01	mg/L
Normal value for fresh water sediment	35,8	mg/kg
Normal value for marine water sediment	3,58	mg/kg
Normal value for water, intermittent release	1	mg/L
Normal value of STP microorganisms	10	mg/L
Normal value for the terrestrial compartment	7,1	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							VND	122,5 mg/m3
Skin.							VND	17,5 mg/kg/day

#### Glycerol, propoxilated, esters with acrylic acid

##### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,00574	mg/L
Normal value in marine water	0,000574	mg/L
Normal value for fresh water sediment	0,01697	mg/kg
Normal value for marine water sediment	0,001697	mg/kg
Normal value for water, intermittent release	0,0574	mg/L
Normal value of STP microorganisms	10	mg/L
Normal value for the food chain (secondary poisoning)	5,6	mg/kg
Normal value for the terrestrial compartment	0,00111	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,39 mg/kg/day				
Inhalation.			VND	4,87 mg/m3			VND	16,22 mg/m3
Skin.			VND	1,15 mg/kg			VND	1,92 mg/kg

### SECTION 8. Exposure controls/personal protection. ... / >>

#### 2-hydroxy-2-methyl propiophenone

##### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,00195	mg/L
Normal value in marine water	0,000195	mg/L
Normal value for fresh water sediment	0,00514	mg/kg
Normal value for marine water sediment	0,000514	mg/kg
Normal value for water, intermittent release	0,0195	mg/L
Normal value of STP microorganisms	45	mg/L
Normal value for the terrestrial compartment	0,000674	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.					3,5 mg/m3	3,5 mg/m3	VND	3,5 mg/m3
Skin.					VND	1,25 mg/kg	VND	1,25 mg/kg

#### Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine

##### Predicted no-effect concentration - PNEC.

Normal value in fresh water	0,00353	mg/L
Normal value in marine water	0,000353	mg/L
Normal value for fresh water sediment	0,29	mg/kg
Normal value for marine water sediment	0,029	mg/kg
Normal value for water, intermittent release	0,0353	mg/L
Normal value for the terrestrial compartment	0,0557	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation.							VND	3,5 mg/m3
Skin.							VND	1 mg/kg

Legend:

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls.

Engineering Controls: Provide adequate ventilation to control air contaminants below recommended exposure limits. Good general ventilation should be sufficient to control airborne levels. Aspiratory system is recommended.

RESPIRATORY PROTECTION: If exposure levels exceed the PEL/TLV levels, use approved respirator.

SKIN PROTECTION: Nitrile gloves are required to prevent skin contact.

EYE PROTECTION: Safety glasses required.

OTHER PROTECTION : Face Shield and apron are recommended.

ENVIRONMENTAL EXPOSURE CONTROLS.

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

### SECTION 9. Physical and chemical properties.

#### 9.1. Information on basic physical and chemical properties.

Appearance	liquid
Colour	Violet
Odour	characteristic
Odour threshold.	Not available.
pH.	5
Melting point / freezing point.	Not available.
Initial boiling point.	> 100 °C.
Boiling range.	Not available.
Flash point.	Not available.
Evaporation Rate	Not available.
Flammability of solids and gases	Not available.

### SECTION 9. Physical and chemical properties. ... / >>

Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	20 mmHg
Vapour density	<1
Relative density.	1,050 Kg/l
Solubility	partially soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	5000mPa*s
Explosive properties	Not available.
Oxidising properties	Not available.

#### 9.2. Other information.

Solid content.	39,00 %	
VOC (Directive 1999/13/EC) :	0,50 % - 5,25	g/litre.
VOC (volatile carbon) :	0,26 % - 2,73	g/litre.

### SECTION 10. Stability and reactivity.

#### 10.1. Reactivity.

There are no particular risks of reaction with other substances in normal conditions of use.

#### 10.2. Chemical stability.

The product is stable in normal conditions of use and storage.

#### 10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### 10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

#### 10.5. Incompatible materials.

Information not available.

#### 10.6. Hazardous decomposition products.

Information not available.

### SECTION 11. Toxicological information.

#### 11.1. Information on toxicological effects.

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

Upon contact with skin, this product causes sensitization (dermatitis). Dermatitis derives from skin irritation on the areas which repeatedly come into contact with the sensitizing agent. Cutaneous lesions may include: erythemas, edemas, papules, vesicles, pustules, scurries, ulcerations and exudative phenomena, whose intensity varies according to illness seriousness and affected areas. Erythemas, edemas and exudative phenomena prevail during the acute phase. Scurfy skin, dryness, ulcerations and skin thickening prevail during the chronic phase.

This product contains sensitizing substance/s and may cause allergic reactions.

Propoxylated glycerol, esters with acrylic acid:	Eye irritation: Irritating to eyes
Skin Irritation: Non-irritating to skin	
Sensitization: skin sensitizer.	
Bisphenol A diglycidyl-ethyl diacrylate (BADGE-DA):	Eye irritation: not irritating to eyes
Skin irritation: not irritating to the skin	
Sensitization: skin sensitizer.	
2-hydroxy-2-methylpropiophenone:	
Eye Irritation: Non-irritating to eyes	
Skin Irritation: Non-irritating to skin	
Sensitization: not sensitizing to the skin.	
Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine:	
Skin Irritation: Non-irritating to skin	

### SECTION 11. Toxicological information. ... / >>

Eye Irritation: Non-irritating to eyes  
Sensitization: skin sensitizer.

Glycerol, propoxilated, esters with acrylic acid  
LD50 (Oral). 2000 mg/kg OECD 401; rat  
LD50 (Dermal). 2000 mg/kg OECD 402; rabbit

Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)  
LD50 (Oral). 2000 mg/kg OECD 401; rat  
LD50 (Dermal). 2000 mg/kg OECD 402; rat  
LC50 (Inhalation). 4,9 mg/l OECD 403; rat

butylaminocarbonyloxyethyl acrilat  
LD50 (Oral). > 2000 mg/kg rat; fonte scheda esterna

2-hydroxy-2-methyl propiophenone  
LD50 (Oral). 1694 mg/kg OECD 423; rat  
LD50 (Dermal). 6929 mg/kg OECD 402; rat

Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine  
LD50 (Oral). > 5000 mg/kg OECD 401; rat  
LD50 (Dermal). > 2000 mg/kg OECD 402; rat

### SECTION 12. Ecological information.

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

#### 12.1. Toxicity.

Glycerol, propoxilated, esters with acrylic acid  
LC50 - for Fish. 5,74 mg/l/96h OECD 203; Danio rerio  
EC50 - for Crustacea. 91,4 mg/l/48h OECD 202; Daphnia magna  
EC50 - for Algae / Aquatic Plants. 12,2 mg/l/72h OECD 201; Desmodesmus subspicatus

Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)  
EC50 - for Crustacea. > 100 mg/l/48h OECD 202; Daphnia magna  
EC50 - for Algae / Aquatic Plants. 105 mg/l/72h OECD 201; Pseudokirchnerella subcapitata; growth rate  
EC10 for Algae / Aquatic Plants. 6,1 mg/l/72h OECD 201; Pseudokirchnerella subcapitata; growth rate

2-hydroxy-2-methyl propiophenone  
LC50 - for Fish. 160 mg/l/96h DIN 38412, part 15; Leuciscus idus  
EC50 - for Crustacea. > 119 mg/l/48h OECD 202; Daphnia magna  
EC50 - for Algae / Aquatic Plants. 1,95 mg/l/72h OECD 201; Desmodesmus subspicatus; growth rate

Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine  
LC50 - for Fish. 6,53 mg/l/96h JIS K 0102-1986, 71; Oryzias latipes; 48h  
EC50 - for Crustacea. 3,53 mg/l/48h OECD 202; Daphnia magna  
EC50 - for Algae / Aquatic Plants. > 2,01 mg/l/72h OECD 201; Pseudokirchnerella subcapitata; growth rate

#### 12.2. Persistence and degradability.

Glycerol, propoxilated, esters with acrylic acid  
Rapidly biodegradable.

Bisphenol A diglycidyl-ether diacrylate (BADGE-DA)  
Entirely biodegradable.

2-hydroxy-2-methyl propiophenone  
Rapidly biodegradable.

Oxide, diphenyl (2,4,6-trimethylbenzoyl) phosphine  
NOT rapidly biodegradable.





### SECTION 15. Regulatory information. ... / >>

Substances in Candidate List (Art. 59 REACH).

None.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

German regulation on the classification of substances hazardous to water (VwVwS 2005).

WGK 1: Low hazard to waters

### 15.2. Chemical safety assessment.

No chemical safety assessment has been processed for the mixture and the substances it contains.

### SECTION 16. Other information.

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>Acute Tox. 4</b>	Reproductive toxicity, category 2
<b>Eye Irrit. 2</b>	Acute toxicity, category 4
<b>Skin Irrit. 2</b>	Eye irritation, category 2
<b>Skin Sens. 1</b>	Skin irritation, category 2
<b>Aquatic Chronic 2</b>	Skin sensitization, category 1
<b>Aquatic Chronic 4</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>H361f</b>	Hazardous to the aquatic environment, chronic toxicity, category 4
<b>H302</b>	Suspected of damaging fertility.
<b>H319</b>	Harmful if swallowed.
<b>H315</b>	Causes serious eye irritation.
<b>H317</b>	Causes skin irritation.
<b>H411</b>	May cause an allergic skin reaction.
<b>H413</b>	Toxic to aquatic life with long lasting effects.
<b>EUH204</b>	May cause long lasting harmful effects to aquatic life.
	Contains isocyanates. May produce an allergic reaction.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation

**SECTION 16. Other information. ... / >>**

- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

**GENERAL BIBLIOGRAPHY**

1. Regulation (EU) 1907/2006 (REACH) of the European Parliament
2. Regulation (EU) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament

- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website

**Note for users:**

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

**Changes to previous review:**

The following sections were modified:

09.