

## Safety data sheet

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

#### 1.1. Product identifier.

Code:	<b>SCEP031FT_</b>
Product name:	<b>Fotecoat 1833 Blue</b>
Chemical name and synonym:	<b>Aqueous emulsion of water dispersible polymers, pigments and plasticiser</b>

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

Intended use:	<b>Pure photopolymer emulsion for projection exposure.</b>
---------------	--

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

Name:	<b>SAATI S.P.A.</b>
Full address:	<b>Via Milano, 14</b>
District and Country:	<b>22070 APPIANO GENTILE (CO) Italy</b>
Tel.	<b>0039.31.9711</b>
Fax.	<b>0039.31.933392</b>

e-mail address of the competent person responsible for the Safety Data Sheet.	<b>info.it@saatichem.com</b>
---	------------------------------

#### 1.4. Emergency telephone number.

For urgent inquiries refer to:	<b>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</b>
--------------------------------	--

### 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 1A	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:	
<b>H317</b>	May cause an allergic skin reaction.

Precautionary statements:	
<b>P272</b>	Contaminated work clothing should not be allowed out of the workplace.
<b>P280</b>	Wear protective gloves / clothing.
<b>P302+P352</b>	IF ON SKIN: wash with plenty of water / . . .

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

**P333+P313** If skin irritation or rash occurs: Get medical advice / attention.  
**P362+P364** Take off contaminated clothing and wash it before reuse.

**Contains:** TRIMETHYLOLPROPANE TRIACRYLATE  
5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one

### 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.	x = Conc. %.	Classification 1272/2008 (CLP).
-----------------	--------------	---------------------------------

**TRIMETHYLOLPROPANE TRIACRYLATE**

<p>CAS. 15625-89-5 EC. 239-701-3 INDEX. 607-111-00-9 Reg. no. 01-2119489896-11-xxxx</p>	<p><math>5 \leq x &lt; 10</math></p>	<p>Eye Irrit. 2 H319, Skin Irrit. 2 H315, Skin Sens. 1 H317, Note D</p>
---	--------------------------------------	---

**Propanol, oxybis-, dibenzoate**

<p>CAS. 27138-31-4 EC. 248-258-5 INDEX. Reg. no. 01-2119529241-49-xxxx</p>	<p><math>5 \leq x &lt; 7,5</math></p>	<p>Aquatic Chronic 3 H412</p>
--	---------------------------------------	-------------------------------

**2-BROMO-2-NITROPROPAN-1,3-DIOL**

<p>CAS. 52-51-7 EC. 200-143-0 INDEX. 603-085-00-8 Reg. no. 01-2119980938-15-xxxx</p>	<p><math>0 \leq x &lt; 0,05</math></p>	<p>Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10, Aquatic Chronic 2 H411</p>
--	--	---

**5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one**

<p>CAS. 55965-84-9 EC. 611-341-5 INDEX. 613-167-00-5</p>	<p><math>0,0015 \leq x &lt; 0,06</math></p>	<p>Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Skin Sens. 1A H317, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1</p>
--	---	---

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.

Specific information on symptoms and effects caused by the product are unknown.  
For symptoms and effects caused by the contained substances, see chap. 11.

### 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. If the product is flammable, use explosion-proof equipment. 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. 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.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

### 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. 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.

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

#### TRIMETHYLOLPROPANE TRIACRYLATE

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

Normal value in fresh water	0,00147	mg/L
Normal value in marine water	0,000147	mg/L
Normal value for fresh water sediment	0,0062	mg/kg
Normal value for marine water sediment	0,00062	mg/kg
Normal value of STP microorganisms	6,25	mg/L
Normal value for the food chain (secondary poisoning)	5,6	mg/kg
Normal value for the terrestrial compartment	0,0043	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				
Inhalation.			VND	4,9 mg/m3			VND	16,2 mg/m3
Skin.			VND	0,48 mg/kg			VND	0,8 mg/kg

#### Propanol, oxybis-, dibenzoate

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

Normal value in fresh water	0,0037	mg/L
Normal value in marine water	0,00037	mg/L
Normal value for fresh water sediment	1,49	mg/kg
Normal value for marine water sediment	0,149	mg/kg
Normal value for water, intermittent release	0,037	mg/L
Normal value of STP microorganisms	10	mg/L
Normal value for the terrestrial compartment	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
Oral.	VND	80 mg/kg	VND	5 mg/kg				
Inhalation.	VND	8,7 mg/m3	VND	8,69 mg/m3	VND	35,08 mg/m3	VND	8,8 mg/m3
Skin.	VND	80 mg/kg	VND	0,22 mg/kg	VND	170 mg/kg	VND	10 mg/kg

#### 2-BROMO-2-NITROPROPAN-1,3-DIOL

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

Normal value in fresh water	0,01	mg/l
Normal value in marine water	0,0008	mg/l
Normal value for fresh water sediment	0,041	mg/kg
Normal value for marine water sediment	0,041	mg/kg
Normal value for water, intermittent release	0,0025	mg/l
Normal value of STP microorganisms	0,43	mg/l
Normal value for the terrestrial compartment	0,5	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	1,1 mg/kg	VND	0,35 mg/kg				
Inhalation.	1,3 mg/m3	3,7 mg/m3	1,3 mg/m3	1,2 mg/m3	4,2 mg/m3	12,3 mg/m3	4,2 mg/m3	4,1 mg/m3
Skin.	VND	4,2 mg/kg	VND	1,4 mg/kg	VND	7 mg/kg	VND	2,3 mg/kg

### 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.

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

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	blue
Odour	Light
Odour threshold.	Not available.
pH.	4,7
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.
Lower inflammability limit.	Not available.
Upper inflammability limit.	Not available.
Lower explosive limit.	Not available.
Upper explosive limit.	Not available.
Vapour pressure.	18 mmHg
Vapour density	<1
Relative density.	Not available.
Solubility	partially soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not available.
Decomposition temperature.	Not available.
Viscosity	15000mPa*s
Explosive properties	Not available.
Oxidising properties	Not available.

### 9.2. Other information.

Total solids (250°C / 482°F)	45,00 %
VOC (Directive 2010/75/EC) :	0
VOC (volatile carbon) :	0

## 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.

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.

### 11.1. Information on toxicological effects.

#### TRIMETHYLOLPROPANE TRIACRYLATE

##### TRIMETHYLOLPROPANE triacrylate:

Skin Irritation: Slightly irritating to the skin

Eye Irritation: Moderately irritating to eyes

Sensitization: skin sensitizer.

#### ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture:

Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture:

Not classified (no significant component).

LD50 (Oral) of the mixture:

Not classified (no significant component).

LD50 (Dermal) of the mixture:

Not classified (no significant component).

#### 2-BROMO-2-NITROPROPAN-1,3-DIOL

LD50 (Oral).

305 mg/kg study report; rat

LD50 (Dermal).

> 2000 mg/kg OECD 402; rat

LC50 (Inhalation).

> 0,588 mg/l study report; rat

#### TRIMETHYLOLPROPANE TRIACRYLATE

LD50 (Oral).

3680 mg/kg rat

LD50 (Dermal).

5170 mg/kg rabbit

LC50 (Inhalation).

> 0,55 mg/l rat; vapour 6h

#### Propanol, oxybis-, dibenzoate

LD50 (Oral).

3914 mg/kg OECD 401; rat

LD50 (Dermal).

> 2000 mg/kg OECD 402; rat

LC50 (Inhalation).

> 200 rat; 4 h

#### SKIN CORROSION / IRRITATION.

Does not meet the classification criteria for this hazard class.

#### SERIOUS EYE DAMAGE / IRRITATION.

Does not meet the classification criteria for this hazard class.

#### RESPIRATORY OR SKIN SENSITISATION.

Sensitising for the skin.

#### GERM CELL MUTAGENICITY.

Does not meet the classification criteria for this hazard class.

#### CARCINOGENICITY.

Does not meet the classification criteria for this hazard class.

#### REPRODUCTIVE TOXICITY.

Does not meet the classification criteria for this hazard class.

#### STOT - SINGLE EXPOSURE.

Does not meet the classification criteria for this hazard class.

#### STOT - REPEATED EXPOSURE.

Does not meet the classification criteria for this hazard class.

#### ASPIRATION HAZARD.

Does not meet the classification criteria for this hazard class.

## 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.

#### 2-BROMO-2-NITROPROPAN-1,3-DIOL

LC50 - for Fish.	41,2 mg/l/96h EPA OPP 72-1; Oncorhynchus mykiss
EC50 - for Crustacea.	1,4 mg/l/48h OECD 202; Daphnia magna
EC50 - for Algae / Aquatic Plants.	0,37 mg/l/72h OECD 201; Pseudokirchnerella subcapitata; growth rate
Chronic NOEC for Fish.	21,5 mg/l OECD 210; Oncorhynchus mykiss; 49d
Chronic NOEC for Crustacea.	0,27 mg/l OECD 211; Daphnia magna; 21d

#### TRIMETHYLOLPROPANE TRIACRYLATE

LC50 - for Fish.	1,47 mg/l/96h DIN 38412 - Parte 15; Leuciscus idus
EC50 - for Crustacea.	19,9 mg/l/48h Direttiva 67/548/CEE; Daphnia magna
EC50 - for Algae / Aquatic Plants.	18,85 mg/l/72h DIN 38412 - Parte 9; Pseudokirchneriella subcapitata; growth rate

#### Propanol, oxybis-, dibenzoate

LC50 - for Fish.	3,7 mg/l/96h OECD 203; Pimephales promelas
EC50 - for Crustacea.	19,3 mg/l/48h OECD 202; Daphnia magna
EC50 - for Algae / Aquatic Plants.	4,9 mg/l/72h OECD 201; Pseudokirchnerella subcapitata

#### 5-Chloro-2-methyl-4-isothiazolin-3-one/2-methyl-2h-isothiazol-3-one

LC50 - for Fish.	0,19 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea.	0,16 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants.	0,027 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish.	0,05 Oncorhynchus mykiss
Chronic NOEC for Crustacea.	0,1 Daphnia magna

### 12.2. Persistence and degradability.

#### 2-BROMO-2-NITROPROPAN-1,3-DIOL

Rapidly biodegradable.

#### TRIMETHYLOLPROPANE TRIACRYLATE

Rapidly biodegradable.

#### Propanol, oxybis-, dibenzoate

Rapidly biodegradable.

### 12.3. Bioaccumulative potential.

#### TRIMETHYLOLPROPANE TRIACRYLATE

Partition coefficient: n-octanol/water. 0,67

### 12.4. Mobility in soil.

#### TRIMETHYLOLPROPANE TRIACRYLATE

Partition coefficient: soil/water. 2,2

### 12.5. Results of PBT and vPvB assessment.

#### TRIMETHYLOLPROPANE TRIACRYLATE

Trimethylolpropane triacrylate: not PBT and vPvB.

### 12.6. Other adverse effects.

Information not available.



**SAATI S.P.A.**  
**Fotecoat 1833 Blue**

Revision nr.6  
Dated 10/04/2017  
Printed on 10/04/2017  
Page n. 8 / 10

EN

**SECTION 13. Disposal considerations.**

**13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**SECTION 14. Transport information.**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number.**

Not applicable.

**14.2. UN proper shipping name.**

Not applicable.

**14.3. Transport hazard class(es).**

Not applicable.

**14.4. Packing group.**

Not applicable.

**14.5. Environmental hazards.**

Not applicable.

**14.6. Special precautions for user.**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code.**

Information not relevant.

**SECTION 15. Regulatory information.**

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

Seveso Category - Directive 2012/18/EC:                                      None.

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.  
Product.  
Point.                                      3

Substances in Candidate List (Art. 59 REACH).  
 On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

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.



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

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.

WGK 2: 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. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>STOT SE 3</b>	Specific target organ toxicity - single exposure, category 3
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Skin Sens. 1A</b>	Skin sensitization, category 1A
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 1</b>	Hazardous to the aquatic environment, chronic toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H335</b>	May cause respiratory irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

### 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 (EC) 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
10. Regulation (EU) 2015/1221 (VII 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:

01 / 02 / 03 / 04 / 08 / 09 / 11 / 12 / 14 / 15 / 16.