

# DRACO ITALIANA S.p.A.

## BITUMFLEX COLOR

Revision nr.6  
Dated 23/10/2020  
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EN

## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

Product name **BITUMFLEX COLOR**

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

Intended use **ACRYLIC RESIN**

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

Name **DRACO ITALIANA S.p.A.**  
Full Address **Via Monte Grappa, 11 D- E**  
Distric and Country **20067 Tribiano (MI)**  
**Italia**  
**tel. +39 02.90632917 fax +39 02.90631976**

e-mail address of the competent person  
responsible of the Safety Data Sheet **info@draco-edilizia.it**

#### 1.4. Emergency telephone number

For urgent inquiries refer to

**Numeri telefonici dei principali Centri Antiveleni italiani (attivi 24/24 ore):**  
**Centro Antiveleni di Pavia 0382 24444 (CAV Centro Nazionale di**  
**Informazione Tossicologica - Pavia); Centro Antiveleni di Milano 02**  
**66101029 (CAV Ospedale Niguarda Ca' Granda - Milano); Centro Antiveleni**  
**di Bergamo 800 883300 (CAV Azienda Ospedaliera Papa Giovanni XXII -**  
**Bergamo); Centro Antiveleni di Firenze 055 7947819 (CAV Ospedale**  
**Careggi - Firenze); Centro Antiveleni di Roma 06 3054343 (CAV Policlinico**  
**Gemelli - Roma); Centro Antiveleni di Roma 06 49978000 (CAV Policlinico**  
**Umberto I - Roma); Centro Antiveleni Pediatrico di Roma 06 68593726**  
**(CAVp Osp. Pediatrico Bambino Gesù- Roma); Centro Antiveleni di Foggia**  
**0881 732326 (Azienda Ospedaliero Universitaria di Foggia); Centro**  
**Antiveleni di Napoli 081 7472870 (CAV Ospedale Cardarelli - Napoli)**

### 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 (EU) Regulation 2015/830. 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:

Specific target organ toxicity - repeated exposure,  
category 2

H373

May cause damage to organs through prolonged or  
repeated exposure.

#### 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:  
**H373** May cause damage to organs through prolonged or repeated exposure.

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

**EUH208** Contains: Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)  
1,2-benzisotiazol-3(2H)-one  
May produce an allergic reaction.

Precautionary statements:

**P314** Get medical advice / attention if you feel unwell.

**Contains:** QUARTZ

### 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

#### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>QUARTZ</b>		
CAS	14808-60-7	4,5 ≤ x < 5
EC	238-878-4	
INDEX		
<b>2-BUTOXYETHANOL</b>		
CAS	111-76-2	0,5 ≤ x < 0,6
EC	203-905-0	
INDEX	603-014-00-0	
Reg. no.	01-2119475108-36	
<b>AMMONIA</b>		
CAS	1336-21-6	0 ≤ x < 0,05
EC	215-647-6	
INDEX	007-001-01-2	
Reg. no.	01-2119488876-14	
<b>1,2-benzisotiazol-3(2H)-one</b>		
CAS	2634-33-5	0 ≤ x < 0,05
EC	220-120-9	
INDEX	613-088-00-6	
Reg. no.	01-2120761540-60-XXXX	
<b>XYLENE (MIXTURE OF ISOMERS)</b>		
CAS	1330-20-7	0 ≤ x < 0,05
EC	215-535-7	
INDEX	601-022-00-9	
Reg. no.	01-2119488216-32	
	01-2119486136-34	
<b>Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)</b>		
CAS	55965-84-9	0 ≤ x < 0,0015
EC		
INDEX	613-167-00-5	
Reg. no.	01-2119977092	
	01-2120764691	

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

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### 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.

#### 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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

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

Do not breathe combustion products.

#### 5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

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. 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.

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## 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. 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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. 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.

### 7.3. Specific end use(s)

Information not available

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

GBR	United Kingdom	EH40/2005 Workplace exposure limits (Third edition,published 2018)
ITA	Italia	DIRETTIVA (UE) 2017/164 DELLA COMMISSIONE del 31 gennaio 2017
EU	OEL EU	Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2019

#### QUARTZ

##### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min
		mg/m3 ppm	mg/m3 ppm
TLV-ACGIH		0,025	

#### 2-BUTOXYETHANOL

##### Threshold Limit Value

Type	Country	TWA/8h	STEL/15min	
		mg/m3 ppm	mg/m3 ppm	
WEL	GBR	123	25	246 50 SKIN
VLEP	ITA	98	20	246 50 SKIN
OEL	EU	98	20	246 50 SKIN
TLV-ACGIH		97	20	

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

Normal value in fresh water	8,8	mg/l
Normal value in marine water	0,88	mg/l
Normal value for fresh water sediment	34,6	mg/kg
Normal value for marine water sediment	3,46	mg/kg
Normal value for water, intermittent release	9,1	mg/l
Normal value of STP microorganisms	463	mg/l
Normal value for the food chain (secondary poisoning)	0,02	mg/kg
Normal value for the terrestrial compartment	2,33	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		26,7 mg/kg bw/d		6,3 mg/kg bw/d				
Inhalation	147 mg/m3	426 mg/m3		59 mg/m3	246 mg/m3		98 mg/m3	
Skin		89 mg/kg bw/d		75 mg/kg bw/d	89 mg/kg bw/d		125 mg/kg bw/d	

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

#### AMMONIA

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
VLEP	ITA	14	20	36	50
OEL	EU	14	20	36	50
TLV-ACGIH		17	25	24	35

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

Normal value in fresh water	0,0011	mg/l
Normal value in marine water	0,0011	mg/l
Normal value for water, intermittent release	0,0068	mg/l

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Inhalation	7,2	23,8	2,8	23,8	36	47,6		47,6
	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3	mg/m3		mg/m3
Skin		68		68		6,8		6,8
		mg/kg bw/d		mg/kg bw/d		mg/kg		mg/kg
						bw/d		bw/d

#### XYLENE (MIXTURE OF ISOMERS)

##### Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		
		mg/m3	ppm	mg/m3	ppm	
WEL	GBR	220	50	441	100	SKIN
VLEP	ITA	221	50	442	100	SKIN
OEL	EU	221	50	442	100	SKIN
TLV-ACGIH		434	100	651	150	

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

Normal value in fresh water	0,326	mg/l
Normal value in marine water	0,326	mg/l
Normal value for fresh water sediment	12,46	mg/kg
Normal value for marine water sediment	12,46	mg/kg
Normal value of STP microorganisms	6,58	mg/l
Normal value for the terrestrial compartment	2,31	mg/kg

#### Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

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

Normal value in fresh water	0,00339	mg/l
Normal value in marine water	0,00339	mg/l
Normal value for fresh water sediment	0,027	mg/kg
Normal value for marine water sediment	0,027	mg/kg
Normal value for water, intermittent release	0,00339	mg/l
Normal value of STP microorganisms	0,23	mg/l
Normal value for the terrestrial compartment	0,01	mg/kg

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

Route of exposure	Effects on consumers				Effects on workers			
	Acute	Acute	Chronic	Chronic	Acute local	Acute	Chronic	Chronic
	local	systemic	local	systemic		systemic	local	systemic
Oral		0,11		0,09				
		mg/kg bw/d		mg/kg bw/d				
Inhalation	0,04		0,02		0,04		0,02	
	mg/m3		mg/m3		mg/m3		mg/m3	

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.  
VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

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

**HAND PROTECTION** Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type B filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

Protezione delle mani / Hand protection:

Guanti di protezione idonei agli agenti chimici (EN 374) / Protective gloves suitable for chemicals (EN 374)

Gomma/rubber NBR: spessore/thickness  $\geq 0,35\text{mm}$ ; tempo/time  $\geq 480\text{min}$

Gomma/rubber butile - IIR: spessore/thickness  $\geq 0,5\text{mm}$ ; tempo/time  $\geq 480\text{min}$

Gomma/rubber fluorurata - FKM: spessore/thickness  $\geq 0,4\text{mm}$ ; tempo/time  $\geq 480\text{min}$

Policloroprene - CR: spessore/thickness  $\geq 0,5\text{mm}$ ; tempo/time  $\geq 480\text{min}$

### SECTION 9. Physical and chemical properties

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

Properties	Value	Information
Appearance	pasty liquid	
Colour	as showed in color folder	
Odour	mild	
Odour threshold	Not available	
pH	Not determined	
Melting point / freezing point	Not available	
Initial boiling point	Not available	
Boiling range	Not available	
Flash point	> 100 °C	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	1,68-1,72 g/cm <sup>3</sup> g/cm <sup>3</sup>	
Solubility	partially soluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	>100°C	
Viscosity	1.600 Pa.s	
Explosive properties	not explosive	
Oxidising properties	Not available	

#### 9.2. Other information

Information not available

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## SECTION 10. Stability and reactivity

### 10.1. Reactivity

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

#### 2-BUTOXYETHANOL

Decomposes under the effect of heat.

#### AMMONIA

Corrodes: aluminium,iron,zinc,copper,copper alloys.

### 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.

#### 2-BUTOXYETHANOL

May react dangerously with: aluminium,oxidising agents.Forms peroxides with: air.

#### AMMONIA

Risk of explosion on contact with: strong acids,iodine.May react dangerously with: strong bases.

#### XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures with: air.

### 10.4. Conditions to avoid

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

#### 2-BUTOXYETHANOL

Avoid exposure to: sources of heat,naked flames.

### 10.5. Incompatible materials

#### AMMONIA

Incompatible with: silver,silver salts,lead,lead salts,zinc,zinc salts,hydrochloric acid,nitric acid,oleum,halogens,acrolein,nitromethane,acrylic acid.

### 10.6. Hazardous decomposition products

#### 2-BUTOXYETHANOL

May develop: hydrogen.

#### AMMONIA

May develop: nitric oxide.

## 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

#### Metabolism, toxicokinetics, mechanism of action and other information

Information not available

#### Information on likely routes of exposure

##### XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of environmental air.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

##### XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

#### Interactive effects

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

#### XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

#### ACUTE TOXICITY

LC50 (Inhalation) 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)

#### AMMONIA

LD50 (Oral)	350 mg/kg Rat
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#### XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral)	3523 mg/kg Rat
LD50 (Dermal)	4350 mg/kg Rabbit
LC50 (Inhalation)	26 mg/l/4h Rat

#### 2-BUTOXYETHANOL

LD50 (Oral)	1414 mg/kg Rat
LD50 (Dermal)	> 2000 mg/kg Rabbit
LC50 (Inhalation)	2,2 mg/l/4h Rat

#### 1,2-benzisotiazol-3(2H)-one

LD50 (Oral)	> 490 mg/kg rat
LD50 (Dermal)	> 2000 mg/kg rat

Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

LD50 (Oral)	53 mg/kg mouse
LD50 (Dermal)	87 mg/kg rabbit
LC50 (Inhalation)	0,171 mg/l/4h rat

#### 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

May produce an allergic reaction.

Contains:

Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)  
1,2-benzisotiazol-3(2H)-one

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class

#### XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).  
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

#### STOT - SINGLE EXPOSURE



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

Does not meet the classification criteria for this hazard class

#### STOT - REPEATED EXPOSURE

May cause damage to organs

#### 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

##### AMMONIA

LC50 - for Fish	47 mg/l/96h Channa punctata
EC50 - for Crustacea	20 mg/l/48h Daphnia magna

##### XYLENE (MIXTURE OF ISOMERS)

LC50 - for Fish	4,093 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	8,5 mg/l/48h Palaemonetes pugio
Chronic NOEC for Fish	3,3 mg/l Menidia menidia
Chronic NOEC for Crustacea	6,8 mg/l Daphnia magna

##### 2-BUTOXYETHANOL

LC50 - for Fish	1474 mg/l Oncorhynchus mykiss
EC50 - for Crustacea	1550 mg/l Daphnia magna
EC50 - for Algae / Aquatic Plants	911 mg/l Pseudokirchneriella subcapitata

##### 1,2-benzisotiazol-3(2H)-one

LC50 - for Fish	2,15 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	2,9 mg/l Daphnia magna
EC50 - for Algae / Aquatic Plants	0,11 mg/l Pseudokirchneriella subcapitata
Chronic NOEC for Algae / Aquatic Plants	0,0403 mg/l Pseudokirchneriella subcapitata

##### Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

LC50 - for Fish	0,19 mg/l/96h Danio rerio
EC50 - for Crustacea	0,007 mg/l acartia tonsa
EC50 - for Algae / Aquatic Plants	0,0052 mg/l/72h Skeletonema costatum
EC10 for Algae / Aquatic Plants	0,188 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	0,098 mg/l Oncorhynchus mykiss
Chronic NOEC for Crustacea	0,0036 mg/l daphnia magna
Chronic NOEC for Algae / Aquatic Plants	0,00049 mg/l Skeletonema costatum

#### 12.2. Persistence and degradability

##### AMMONIA

Degradability: information not available

##### XYLENE (MIXTURE OF ISOMERS)

Solubility in water	100 - 1000 mg/l
Degradability: information not available	

##### 2-BUTOXYETHANOL

Solubility in water	1000 - 10000 mg/l
Rapidly degradable	

##### 1,2-benzisotiazol-3(2H)-one

Rapidly degradable

##### Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

NOT rapidly degradable

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### SECTION 12. Ecological information ... / >>

#### 12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

BCF 25,9

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water 0,81

1,2-benzisotiazol-3(2H)-one

Partition coefficient: n-octanol/water 0,7 Log Kow

BCF 6,62 -

Miscela di: 5-cloro-2-metil-2H-isotiazol-3-one [EC no. 247-500-7] e 2-metil-2H-isotiazol-3-one [EC no. 220-239-6] (3:1)

Partition coefficient: n-octanol/water -0,71 Log Kow

BCF 3,6

#### 12.4. Mobility in soil

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

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

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

#### 12.6. Other adverse effects

Information not available

### SECTION 13. Disposal considerations

#### 13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

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

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### SECTION 14. Transport information ... / >>

#### 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 - 40

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

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.

#### 15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

### SECTION 16. Other information

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

<b>Flam. Liq. 3</b>	Flammable liquid, category 3
<b>Acute Tox. 2</b>	Acute toxicity, category 2
<b>Acute Tox. 3</b>	Acute toxicity, category 3
<b>Acute Tox. 4</b>	Acute toxicity, category 4
<b>STOT RE 1</b>	Specific target organ toxicity - repeated exposure, category 1
<b>Asp. Tox. 1</b>	Aspiration hazard, category 1
<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Skin Corr. 1B</b>	Skin corrosion, category 1B
<b>Skin Corr. 1C</b>	Skin corrosion, category 1C
<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>H226</b>	Flammable liquid and vapour.
<b>H310</b>	Fatal in contact with skin.
<b>H330</b>	Fatal if inhaled.
<b>H301</b>	Toxic if swallowed.
<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H372</b>	Causes damage to organs through prolonged or repeated exposure.

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### SECTION 16. Other information ... / >>

<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<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.
<b>EUH071</b>	Corrosive to the respiratory tract.

#### 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
- 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 (EC) 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
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/1480 (XIII Atp. CLP)
- 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
  - IFA GESTIS website
  - ECHA website

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

- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**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:

08.