

## WATERBORNE DYE

## SAFETY DATA SHEET

(REACH regulation (EC) n° 1907/2006 - n° 2015/830)

## SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Product name : WATERBORNE DYE

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

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

Registered company name : BLANCHON.

Address : 50, 8ème rue.69800.SAINT PRIEST.FRANCE.

Telephone : 00.33.4.72.89.06.09. Fax : 00.33.4.72.89.06.02.

fds@blanchon.com

http://www.blanchon.com/

## 1.4. Emergency telephone number : 00.33.1.45.42.59.59.

Association/Organisation : Orfila (INRS).

## SECTION 2 : HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

## In compliance with EC regulation No. 1272/2008 and its amendments.

May produce an allergic reaction (EUH208).

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

## 2.2. Label elements

## In compliance with EC regulation No. 1272/2008 and its amendments.

Additional labeling :

EUH208

Contains 1,2-BENZISOTHIAZOL-3(2H)-ONE. May produce an allergic reaction.

EUH208

Contains MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ;  
2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1). May produce an allergic reaction.

EUH210

Safety data sheet available on request.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P271

Use only outdoors or in a well-ventilated area.

Precautionary statements - Disposal :

P501

Dispose of contents / container to an approved landfill.

## 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

## 3.2. Mixtures

## Composition :

Identification	(EC) 1272/2008	Note	%
CAS: 34590-94-8 EC: 252-104-2 REACH: 01-2119450011-60  DIPROPYLENE GLYCOL MONOMETHYL ETHER		[1]	2.5 $\leq$ x % < 10

## WATERBORNE DYE

CAS: 13463-67-7 EC: 236-675-5 REACH: 01-2119489379-17		[1]	0 <= x % < 10
TITANIUM DIOXIDE			
INDEX: 613-088-00-6 CAS: 2634-33-5 EC: 220-120-9  1,2-BENZISOTHIAZOL-3(2H)-ONE	GHS05, GHS07, GHS09 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 M Acute = 1		0 <= x % < 1
CAS: 55965-84-9 EC: 611-341-5  MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1)	GHS06, GHS05, GHS09 Dgr Met. Corr. 1, H290 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 Eye Dam. 1, H318 Acute Tox. 2, H330 Aquatic Acute 1, H400 M Acute = 10 Aquatic Chronic 1, H410 M Chronic = 10		0 <= x % < 1

(Full text of H-phrases: see section 16)

**Information on ingredients :**

[1] Substance for which maximum workplace exposure limits are available.

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures****In the event of exposure by inhalation :**

In the event of an allergic reaction, seek medical attention.

**In the event of splashes or contact with skin :**

In the event of an allergic reaction, seek medical attention.

**In the event of swallowing :**

Seek medical attention, showing the label.

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

No data available.

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

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media****Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO2)

**Unsuitable methods of extinction**

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

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In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

**5.3. Advice for firefighters**

No data available.

**SECTION 6 : ACCIDENTAL RELEASE MEASURES****6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

**6.4. Reference to other sections**

No data available.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

**Storage**

Keep out of reach of children.

**Packaging**

Always keep in packaging made of an identical material to the original.

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

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Occupational exposure limits :**

- European Union (2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

CAS	VME-mg/m <sup>3</sup> :	VME-ppm :	VLE-mg/m <sup>3</sup> :	VLE-ppm :	Notes :
34590-94-8	308	50	-	-	Peau

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
34590-94-8	100 ppm	150 ppm		Skin	
13463-67-7	10 mg/m <sup>3</sup>			A4	

- Germany - AGW (BAuA - TRGS 900, 29/01/2018) :

CAS	VME :	VME :	Excess	Notes
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34590-94-8		50 ppm 310 mg/m <sup>3</sup>		1(I)
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- France (INRS - ED984 :2016) :

CAS	VME-ppm :	VME-mg/m <sup>3</sup> :	VLE-ppm :	VLE-mg/m <sup>3</sup> :	Notes :	TMP No :
34590-94-8	50	308	-	-	*	84
13463-67-7	-	10	-	-	-	-

- UK / WEL (Workplace exposure limits, EH40/2005, 2011) :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
34590-94-8	50 ppm 308 mg/m <sup>3</sup>	- ppm - mg/m <sup>3</sup>		Sk	
13463-67-7	- ppm 4 mg/m <sup>3</sup>	- ppm - mg/m <sup>3</sup>			

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

TITANIUM DIOXIDE (CAS: 13463-67-7)

**Final use:**Exposure method:  
Potential health effects:  
DNEL :**Workers.**Inhalation.  
Long term local effects.  
10 ppm**Final use:**Exposure method:  
Potential health effects:  
DNEL :**Consumers.**Ingestion.  
Long term systemic effects.  
700 mg/kg body weight/day

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

**Final use:**Exposure method:  
Potential health effects:  
DNEL :**Workers.**Dermal contact.  
Long term systemic effects.  
283 mg/kg body weight/dayExposure method:  
Potential health effects:  
DNEL :Inhalation.  
Long term systemic effects.  
308 mg of substance/m<sup>3</sup>**Final use:**Exposure method:  
Potential health effects:  
DNEL :**Consumers.**Ingestion.  
Long term systemic effects.  
36 mg/kg body weight/dayExposure method:  
Potential health effects:  
DNEL :Dermal contact.  
Long term systemic effects.  
121 mg/kg body weight/dayExposure method:  
Potential health effects:  
DNEL :Inhalation.  
Long term systemic effects.  
37.2 mg of substance/m<sup>3</sup>**Predicted no effect concentration (PNEC):**

TITANIUM DIOXIDE (CAS: 13463-67-7)

Environmental compartment:  
PNEC :Air.  
1667 mg/kgEnvironmental compartment:  
PNEC :Soil.  
100 mg/kgEnvironmental compartment:  
PNEC :Fresh water.  
0.184 mg/lEnvironmental compartment:  
PNEC :Sea water.  
0.0184 mg/l

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Environmental compartment: PNEC :	Intermittent waste water. 0.61 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 1000 mg/kg
Environmental compartment: PNEC :	Marine sediment. 100 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 100 mg/l

## DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Environmental compartment: PNEC :	Soil. 2.74 mg/kg
Environmental compartment: PNEC :	Fresh water. 19 mg/l
Environmental compartment: PNEC :	Sea water. 1.9 mg/l
Environmental compartment: PNEC :	Intermittent waste water. 190 mg/l
Environmental compartment: PNEC :	Fresh water sediment. 70.2 mg/kg
Environmental compartment: PNEC :	Marine sediment. 7.02 mg/kg
Environmental compartment: PNEC :	Waste water treatment plant. 4168 mg/l

## 8.2. Exposure controls

### Personal protection measures, such as personal protective equipment

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

#### - Hand protection

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Recommended properties :

- Impervious gloves in accordance with standard EN374

#### - Body protection

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

## WATERBORNE DYE

## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

## 9.1. Information on basic physical and chemical properties

## General information :

Physical state : Fluid liquid.

## Important health, safety and environmental information

pH : Not stated.  
Neutral.  
Boiling point/boiling range : 100 °C.  
Flash point interval : Not relevant.  
Vapour pressure (50°C) : Below 110 kPa (1.10 bar).  
Density : > 1  
Water solubility : Soluble.  
Melting point/melting range : Not specified.  
Self-ignition temperature : Not specified.  
Decomposition point/decomposition range : Not specified.

## 9.2. Other information

V.O.C. : <= 60 g/l.

## SECTION 10 : STABILITY AND REACTIVITY

## 10.1. Reactivity

No data available.

## 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

## 10.3. Possibility of hazardous reactions

No data available.

## 10.4. Conditions to avoid

## 10.5. Incompatible materials

## 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

## 11.1. Information on toxicological effects

No data available.

## 11.1.1. Substances

## Acute toxicity :

MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) (CAS: 55965-84-9)

Oral route : LD50 = 550 mg/kg  
Species : Rat  
  
Dermal route : 200 < LD50 <= 400 mg/kg  
Species : Rat  
  
Inhalation route (n/a) : LC50 0.31 mg/l  
Species : Rat  
Duration of exposure : 4 h

TITANIUM DIOXIDE (CAS: 13463-67-7)

Oral route : LD50 > 5000 mg/kg  
Species : Rat  
OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)  
  
Dermal route : LD50 > 5000 mg/kg

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Species : Rabbit

Inhalation route (n/a) : LC50 > 6.82 mg/l  
Species : Rat

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Oral route : LD50 = 8740 mg/kg  
Species : RatDermal route : LD50 = 9510 mg/kg  
Species : RabbitInhalation route (n/a) : LC50 3404.47 mg/l  
Species : Rat**Skin corrosion/skin irritation :**

TITANIUM DIOXIDE (CAS: 13463-67-7)

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) (CAS: 55965-84-9)

Corrosivity : Causes severe skin burns.

**Serious damage to eyes/eye irritation :**

TITANIUM DIOXIDE (CAS: 13463-67-7)

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

**Respiratory or skin sensitisation :**

MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) (CAS: 55965-84-9)

May cause an allergic skin reaction.

Local lymph node stimulation test : Sensitiser.  
Species : Guinea pig

TITANIUM DIOXIDE (CAS: 13463-67-7)

OECD Guideline 406 (Skin Sensitisation)

**Specific target organ systemic toxicity - repeated exposure :**

TITANIUM DIOXIDE (CAS: 13463-67-7)

Oral route : C = 3500 mg/kg bodyweight/day  
Species : Rat  
Duration of exposure : 90 daysInhalation route : C = 10 mg/litre/6h/day  
Species : Rat  
Duration of exposure : 90 days**11.1.2. Mixture****Respiratory or skin sensitisation :**

Contains at least one sensitising substance. May cause an allergic reaction.

**Monograph(s) from the IARC (International Agency for Research on Cancer) :**

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

**SECTION 12 : ECOLOGICAL INFORMATION****12.1. Toxicity****12.1.1. Substances**

MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) (CAS: 55965-84-9)

Fish toxicity : 0.01 < LC50 <= 0.1 mg/l  
Factor M = 10

Crustacean toxicity : 0.01 &lt; EC50 &lt;= 0.1 mg/l

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Factor M = 10

Algae toxicity :  
0.01 < EC<sub>50</sub> ≤ 0.1 mg/l  
Factor M = 10

## TITANIUM DIOXIDE (CAS: 13463-67-7)

Fish toxicity :  
LC<sub>50</sub> > 100 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h

Crustacean toxicity :  
EC<sub>50</sub> > 100 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

Algae toxicity :  
EC<sub>50</sub> = 16 mg/l  
Species : Pseudokirchnerella subcapitata  
Duration of exposure : 72 h

## DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Fish toxicity :  
LC<sub>50</sub> > 1000 mg/l  
Species : Poecilia reticulata  
Duration of exposure : 96 h

Duration of exposure : 21 days

Crustacean toxicity :  
EC<sub>50</sub> = 1919 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

NOEC = 0.5 mg/l  
Species : Daphnia magna  
Duration of exposure : 21 days

Algae toxicity :  
EC<sub>50</sub> = 6999 mg/l  
Species : Scenedesmus subspicatus  
Duration of exposure : 72 h

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability****12.2.1. Substances**

MIXTURE OF: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE ; 2-METHYL-2H-ISOTHIAZOL-3-ONE (3:1) (CAS: 55965-84-9)

Biodegradability : Non-rapidly degradable.

TITANIUM DIOXIDE (CAS: 13463-67-7)

Biodegradability : Non-rapidly degradable.

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Biodegradability : Rapidly degradable.

**12.3. Bioaccumulative potential****12.3.1. Substances**

TITANIUM DIOXIDE (CAS: 13463-67-7)

Octanol/water partition coefficient : log K<sub>ow</sub> < 3.

DIPROPYLENE GLYCOL MONOMETHYL ETHER (CAS: 34590-94-8)

Octanol/water partition coefficient : log K<sub>ow</sub> = 1.01**12.4. Mobility in soil**

No data available.



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

No data available.

**12.6. Other adverse effects**

No data available.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

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

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

**SECTION 15 : REGULATORY INFORMATION**

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2016/1179. (ATP 9)

**- Container information:**

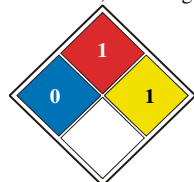
No data available.

**- Particular provisions :**

No data available.

**- Standardised American system for the identification of hazards presented by the product in view of emergency procedures (NFPA 704) :**

NFPA 704, Labelling: Health=0 Inflammability=1 Instability/Reactivity=1 Specific Risk=none



**15.2. Chemical safety assessment**

No data available.

**WATERBORNE DYE**

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

FOR PROFESSIONAL USE ONLY

**Wording of the phrases mentioned in section 3 :**

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**Abbreviations :**

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.