

## 1 Identification

- **Product identifier**
  - *Product number* PF5T03
  - *Trade name:* **UNIVERSAL DYE LIGHT WALNUT**
    - *Application of the substance / the mixture* For professional use
- **Details of the supplier of the safety data sheet**
  - *Manufacturer/Supplier:*  
IVM Chemicals Srl  
Viale della Stazione 3 -27020 Parona (PV)Italy -Tel +39 038425441
  - *Information department:*  
Environmental Health and safety office  
hseoffice@ivmchemicals.com
  - *Emergency telephone number:*  
ChemTel Expert Assistance Hotline/SDS Fax Access by dialing 1-800-255-3924 or for International +1-813-248-0585.

## 2 Hazard(s) identification

- **Classification of the substance or mixture**

Flammable Liquids 3	H226 Flammable liquid and vapor.
Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Sensitization - Skin 1	H317 May cause an allergic skin reaction.
Carcinogenicity 2	H351 Suspected of causing cancer.
Toxic to Reproduction 1B	H360 May damage fertility or the unborn child.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Aquatic Acute 3	H402 Harmful to aquatic life.
Aquatic Chronic 3	H412 Harmful to aquatic life with long lasting effects.

### · Label elements

#### · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

#### · Hazard pictograms



GHS02 GHS07 GHS08

#### · Signal word Danger

#### · Hazard-determining components of labeling:

- 1-methoxy-2-propanol
- C.I. ACID BLACK 194
- C.I. Acid Yellow 151
- 2-methoxypropanol

#### · Hazard statements

- H226 Flammable liquid and vapor.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H360 May damage fertility or the unborn child.
- H336 May cause drowsiness or dizziness.

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H402 Harmful to aquatic life.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**





· **Description:** Mixture: consisting of the following components.

**Dangerous components:**

107-98-2	1-methoxy-2-propanol ⚠ Flammable Liquids 3, H226 ⚠ Specific Target Organ Toxicity - Single Exposure 3, H336	50-74.99%
111-76-2	2-butoxyethanol ⚠ Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315; Eye Irritation 2A, H319 Flammable Liquids 4, H227	20-24.99%
72275-69-5	C.I. ACID ORANGE 139 ⚠ Aquatic Chronic 2, H411 Aquatic Acute 2, H401	1-2.49%
57693-14-8	C.I. ACID BLACK 194 ⚠ Aquatic Chronic 2, H411 ⚠ Eye Irritation 2A, H319; Sensitization - Skin 1, H317 Aquatic Acute 2, H401	1-2.49%
112-34-5	2-(2-butoxyethoxy)ethanol ⚠ Eye Irritation 2A, H319	1-2.49%
72496-88-9	C.I. Acid Yellow 151 ⚠ Carcinogenicity 2, H351 ⚠ Sensitization - Skin 1B, H317 Aquatic Acute 3, H402; Aquatic Chronic 3, H412	1-2.49%

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		(Contd. of page 2)
34590-94-8	(2-methoxymethylethoxy)propanol Flammable Liquids 4, H227	<1%
1589-47-5	2-methoxypropanol <ul style="list-style-type: none"> <li> Flammable Liquids 3, H226</li> <li> Toxic to Reproduction 1B, H360</li> <li> Eye Damage 1, H318</li> <li> Skin Irritation 2, H315; Specific Target Organ Toxicity - Single Exposure 3, H335</li> </ul>	≥0.1-<0.5%

#### 4 First-aid measures

##### · Description of first aid measures

###### · General information:

Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

personal protective equipment for first aid responders is recommended. (please see section 8)

###### · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

###### · After skin contact:

Immediately wash with water and soap and rinse thoroughly.

Take off immediately all contaminated clothing, include underwear and shoes (if necessary).

Rinse thoroughly with plenty of water for at least 20 minutes and take medical advise. If medical advise is needed have products container or label at hand.

###### · After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

###### · After swallowing: Do not induce vomiting; immediately call for medical help.

###### · Information for doctor:

###### · Most important symptoms and effects, both acute and delayed

Allergic reactions

For symptoms and effects caused by substances, refer to Section 11.

###### · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

##### · Extinguishing media

###### · Suitable extinguishing agents:

Alcohol resistant foam

Alcohol resistant foam, CO, powder, water spray/mist.

###### · For safety reasons unsuitable extinguishing agents:

Do not use a jet water stream as it may scatter and spread fire.

##### · Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

##### · Advice for firefighters

Cool by spraying with water the containers to prevent product decomposition and the development of substances potentially hazardous for health and also, in the case of closed containers exposed to flames to prevent explosions.

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· **Protective equipment:**  
Hardhat with visor, fireproof clothing, suitable gloves and if necessary respiratory protective device.

## 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to Section 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
107-98-2	1-methoxy-2-propanol	100 ppm
111-76-2	2-butoxyethanol	60 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	150 ppm

· PAC-2:		
107-98-2	1-methoxy-2-propanol	160 ppm
111-76-2	2-butoxyethanol	120 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	1700* ppm

· PAC-3:		
107-98-2	1-methoxy-2-propanol	660 ppm
111-76-2	2-butoxyethanol	700 ppm
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm

## 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.  
Protect against electrostatic charges.  
Keep respiratory protective device available.  
Use explosion-proof apparatus / fittings and spark-proof tools.

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- **Information about protection against explosions and fires:**
  - Keep ignition sources away - Do not smoke.
  - Protect against electrostatic charges.
  - Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage:**
    - **Requirements to be met by storerooms and receptacles:**
      - Provide solvent resistant, sealed floor.
      - Observe the label precautions, the expiration date for the use, if not indicated, is from delivery date of goods.
      - In cases where there is no reported expiration date, it means that the product must be used within 8 months.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Keep receptacle tightly sealed.
  - **Specific end use(s)** Those typical of the product and the instructions in the data sheet if required.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    - The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    - At this time, the other constituents have no known exposure limits.

### 107-98-2 1-methoxy-2-propanol

REL	Short-term value: 540 mg/m , 150 ppm Long-term value: 360 mg/m , 100 ppm
TLV	Short-term value: 100 ppm Long-term value: 50 ppm A4

### 111-76-2 2-butoxyethanol

PEL	Long-term value: 240 mg/m , 50 ppm Skin
REL	Long-term value: 24 mg/m , 5 ppm Skin
TLV	Long-term value: 20 ppm BEI, A3

### 112-34-5 2-(2-butoxyethoxy)ethanol

TLV	Long-term value: 10* ppm *Inhalable fraction and vapor
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### 34590-94-8 (2-methoxymethylethoxy)propanol

PEL	Long-term value: 600 mg/m , 100 ppm Skin
REL	Short-term value: 900 mg/m , 150 ppm Long-term value: 600 mg/m , 100 ppm Skin
TLV	Long-term value: NIC-50 ppm (Skin)

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· **Ingredients with biological limit values:**

**111-76-2 2-butoxyethanol**

BEI	200 mg/g creatinine
	Medium: urine
	Time: end of shift
	Parameter: Butoxyacetic acid (BAA) (with hydrolysis)

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Store protective clothing separately.
- Avoid contact with the eyes and skin.
- Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:**

Short term filter device:



Suitable respiratory protective device recommended.

Filter A

· **Protection of hands:**



Protective gloves

Due to missing tests no recommendation to the glove material can be given for the product. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

The glove material has to be impermeable and resistant to the product .

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Tightly sealed goggles

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## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

##### · Form:

Fluid

##### · Color:

According to product specification

##### · Odor:

Characteristic

##### · Odor threshold:

Not determined.

##### · pH-value:

Mixture is non-polar/aprotic.

#### · Change in condition

##### · Melting point/Melting range:

Undetermined.

##### · Boiling point/Boiling range:

120.3 °C (248.5 °F)

##### · Flash point:

35 °C (95 °F)

##### · Flammability (solid, gaseous):

Not applicable.

##### · Ignition temperature:

225 °C (437 °F)

##### · Decomposition temperature:

Not determined.

##### · Auto igniting:

Product is not selfigniting.

##### · Danger of explosion:

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

#### · Explosion limits:

##### · Lower:

0.9 Vol %

##### · Upper:

~20 Vol %

##### · Vapor pressure at 20 °C (68 °F):

12 hPa (9 mm Hg)

##### · Density (+/- 0,03) at 20 °C (68 °F):

0.922 g/cm (7.694 lbs/gal)

##### · Relative density

Not determined.

##### · Vapor density

Not determined.

##### · Evaporation rate

Not determined.

#### · Solubility in / Miscibility with

##### · Water:

Not determined.

##### · Partition coefficient (n-octanol/water):

Not determined.

#### · Viscosity:

##### · Dynamic:

Not determined.

##### · Kinematic at 20 °C (68 °F):

40 s (ISO 4 mm)

##### · Oxidising properties:

N.A.

#### · Solvent content:

##### · VOC content:

95.96 %

884.8 g/l / 7.38 lb/gal

##### · Solids content:

4.0 %

### · Other information (HAPS)

112-34-5 | 2-(2-butoxyethoxy)ethanol

1-2.49%

#### · Other information

No further relevant information available.

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## 10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended
  - **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Vapours may form explosive mixtures with air
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **Hazardous decomposition products:** No dangerous decomposition products known.

## 11 Toxicological information

### · Information on toxicological effects

#### · Acute toxicity:

· LD/LC50 values that are relevant for classification:

#### ATE (Acute Toxicity Estimate)

Oral	LD50	4,898 mg/kg
Dermal	LD50	4,490 mg/kg
Inhalative	LC50/4 h	44.9 mg/l (mouse)

#### 107-98-2 1-methoxy-2-propanol

Oral	LD50	4,016 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	5,001 mg/l (mouse)

#### 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE) 1,480 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rab)
Inhalative	LC50/4 h	11 mg/l (mouse)

#### 72275-69-5 C.I. ACID ORANGE 139

Oral	LD50	5,001 mg/kg (mouse)
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#### 112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)

#### 72496-88-9 C.I. Acid Yellow 151

Oral	LD50	5,001 mg/kg (mouse)
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#### 34590-94-8 (2-methoxymethylethoxy)propanol

Oral	LD50	5,135 mg/kg (mouse)
Dermal	LD50	19,020 mg/kg (rabbit)

#### · Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.

#### · Sensitization: Sensitization possible through skin contact.

#### · Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

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Suspected of causing cancer.  
 May damage fertility or the unborn child.  
 May cause drowsiness or dizziness.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer - Cl. 1 and 2)**

72496-88-9	C.I. Acid Yellow 151	2B
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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

· **Toxicity** Harmful to aquatic life with long lasting effects.

· **Aquatic toxicity:**

**107-98-2 1-methoxy-2-propanol**

EC50 21,100 mg/l (daphnia) (48 h)

LC50 (96h) 6,812 mg/l (Fish)

**111-76-2 2-butoxyethanol**

EC50 101 mg/l (daphnia) (24 h)

LC50 (96h) 101 mg/l (Fish)

**112-34-5 2-(2-butoxyethoxy)ethanol**

EC50 1,001 mg/l (daphnia) (48 h)

LC50 (96h) 1,300 mg/l (*Leuciscus idus melanotus*)

**34590-94-8 (2-methoxymethylethoxy)propanol**

EC50 970 mg/l (algae) (72 h)

1,919 mg/l (daphnia) (48 h)

LC50 (96h) 1,001 mg/l (Fish)

· **Persistence and degradability** No further relevant information available.

· **Substances Easily biodegradable**

107-98-2	1-methoxy-2-propanol	.
111-76-2	2-butoxyethanol	.
112-34-5	2-(2-butoxyethoxy)ethanol	.

· **Behavior in environmental systems:**

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

· **Other adverse effects** No further relevant information available.

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### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

Dispose of contents and container in accordance with local state and federal regulations.

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- **UN-Number**

- DOT, IMDG, IATA

UN1263

- Note

Check viscosity and flash point at section 9

- **UN proper shipping name**

- DOT

Paint

- IMDG, IATA

PAINT

- **Transport hazard class(es)**

- DOT



- Class

3 Flammable liquids

- Label

3

- Class

3 Flammable liquids

- Label

3

- IMDG, IATA



- Class

3 Flammable liquids

- Label

3

- **Packing group**

- DOT, IMDG, IATA

III

- **Environmental hazards:**

- Marine pollutant:

No

- **Special precautions for user**

Warning: Flammable liquids

- Hazard identification number (Kemler code):

30

- EMS Number:

F-E, S-E

- Stowage Category

A

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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**· Transport/Additional information:**

**· IMDG**

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml

**· UN "Model Regulation": UN 1263 PAINT, 3, III**

**15 Regulatory information**

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

Requirements of Federal Register

**· Various regulations**

**· SARA**

**· Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

**· Section 313 (Specific toxic chemical listings) :**

111-76-2	2-butoxyethanol	20-24.99%
112-34-5	2-(2-butoxyethoxy)ethanol	1-2.49%
72496-88-9	C.I. Acid Yellow 151	1-2.49%

**· TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

**· Hazardous Air Pollutants**

72496-88-9	C.I. Acid Yellow 151
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**· Proposition 65**

**· Chemicals known to cause cancer:**

None of the ingredients is listed.

**· Chemicals known to cause reproductive toxicity for females:**

1589-47-5	2-methoxypropanol	≥0.1-<0.5%
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**· Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**· Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**· Carcinogenic categories**

**· EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL	20-24.99%
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**· TLV (Threshold Limit Value)**

111-76-2	2-butoxyethanol	A3
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**· NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

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- **National regulations:**  
 The product is subject to be labeled according with the prevailing version of the regulations on hazardous substances.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** IVM Chemicals Srl
- **Contact:** See emergency phone
  - **Date of preparation / last revision** 08/15/2022 / 67
  - **Abbreviations and acronyms:**  
 IMDG: International Maritime Code for Dangerous Goods  
 DOT: US Department of Transportation  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 NFPA: National Fire Protection Association (USA)  
 HMIS: Hazardous Materials Identification System (USA)  
 VOC: Volatile Organic Compounds (USA, EU)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 NIOSH: National Institute for Occupational Safety  
 OSHA: Occupational Safety & Health  
 TLV: Threshold Limit Value  
 PEL: Permissible Exposure Limit  
 REL: Recommended Exposure Limit  
 BEI: Biological Exposure Limit  
 Flammable Liquids 3: Flammable liquids . Category 3  
 Flammable Liquids 4: Flammable liquids . Category 4  
 Acute Toxicity - Oral 4: Acute toxicity . Category 4  
 Skin Irritation 2: Skin corrosion/irritation . Category 2  
 Eye Damage 1: Serious eye damage/eye irritation . Category 1  
 Eye Irritation 2A: Serious eye damage/eye irritation . Category 2A  
 Sensitization - Skin 1: Skin sensitisation . Category 1  
 Sensitization - Skin 1B: Skin sensitisation . Category 1B  
 Carcinogenicity 2: Carcinogenicity . Category 2  
 Toxic to Reproduction 1B: Reproductive toxicity . Category 1B  
 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) . Category 3  
 Aquatic Acute 2: Hazardous to the aquatic environment - acute aquatic hazard . Category 2  
 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard . Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard . Category 3
- **Sources**  
 REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL and following amendments  
  
 Agency ECHA web site  
 INRS Fiche Toxicologique  
 IARC International agency for research on cancer
- **\* Data compared to the previous version altered.**