

1 Identification

- **Product identifier**
 - *Product number* WUM5AC94
 - *Trade name:* **WB UV TOP-C WHITE 20SH**
 - *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**
Sensitization - Skin 1 H317 May cause an allergic skin reaction.
- **Label elements**
 - *GHS label elements*
The product is classified and labeled according to the Globally Harmonized System (GHS).
 - *Hazard pictograms*



GHS07

- *Signal word* Warning
- *Hazard-determining components of labeling:*
2 propenoic acid, reaction products with dipentaerythritol
2-methyl-2H-isothiazol-3-one
- *Hazard statements*
H317 May cause an allergic skin reaction.
- *Precautionary statements*
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray
 - P280 Wear protective gloves.
 - P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 - P321 Specific treatment (see on this label).
 - P363 Wash contaminated clothing before reuse.
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Classification system:**
 - *NFPA ratings (scale 0 - 4)*



Health = 0
Fire = 1
Reactivity = 0

- *HMIS-ratings (scale 0 - 4)*



Health = 0
Fire = 1
Reactivity = 0

Product number WUM5AC94
Trade name: WB UV TOP-C WHITE 20SH

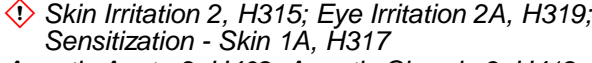
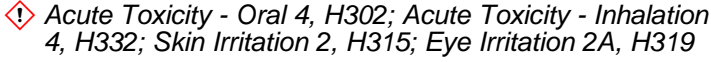
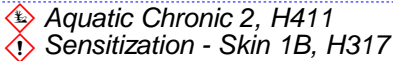
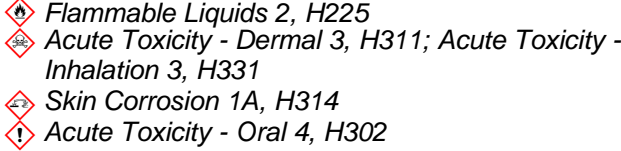

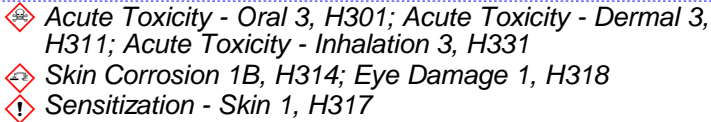
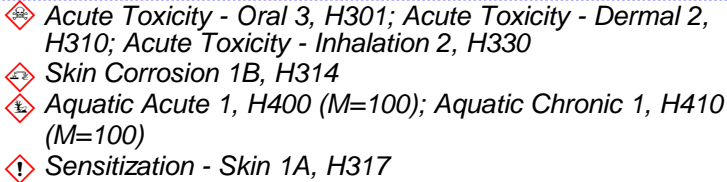
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3 Composition/information on ingredients

· Chemical characterization: Mixtures

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

 · *Dangerous components:*

1384855-91-7	2 propenoic acid, reaction products with dipentaerythritol  Aquatic Acute 3, H402; Aquatic Chronic 3, H412	1-2.49%
111-76-2	2-butoxyethanol  Flammable Liquids 4, H227	0.5-1%
84434-11-7	PHENYL ETHYL PHOSPHATE 	≥0.5-<1%
121-44-8	triethylamine 	<0.5%
34590-94-8	(2-methoxymethylethoxy)propanol Flammable Liquids 4, H227	<1%
112-34-5	2-(2-butoxyethoxy)ethanol 	<0.5%
2682-20-4	2-methyl-2H-isothiazol-3-one 	≥0.0015-<0.01%
55965-84-9	a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1) 	≥0.00025-<0.0015%

4 First-aid measures

· Description of first aid measures

 · *General information:*

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.

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- *After eye contact:* Rinse opened eye for several minutes under running water.
- *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:*
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- *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_x)

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.

· 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

Ensure adequate ventilation

Keep away from ignition sources

· Environmental precautions:

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-I:

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	30 mg/m
111-76-2	2-butoxyethanol	60 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m
121-44-8	triethylamine	1 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	150 ppm

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25322-69-4	Propane-1,2-diol, propoxylated	30 mg/m
68439-49-6	c16-18 alcohols ethoxylated	3.8 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	30 ppm

· PAC-2:

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	330 mg/m
111-76-2	2-butoxyethanol	120 ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m
121-44-8	triethylamine	170 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	1700* ppm
25322-69-4	Propane-1,2-diol, propoxylated	330 mg/m
68439-49-6	c16-18 alcohols ethoxylated	42 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	33 ppm

· PAC-3:

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2,000 mg/m
111-76-2	2-butoxyethanol	700 ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m
121-44-8	triethylamine	1,000 ppm
34590-94-8	(2-methoxymethylethoxy)propanol	9900** ppm
25322-69-4	Propane-1,2-diol, propoxylated	2,000 mg/m
68439-49-6	c16-18 alcohols ethoxylated	250 mg/m
112-34-5	2-(2-butoxyethoxy)ethanol	200 ppm

7 Handling and storage

· Handling:

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.

· Information about protection against explosions and fires: No special measures required.

· Conditions for safe storage, including any incompatibilities

· Storage:

· Requirements to be met by storerooms and receptacles:

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.

Take on temperature greater than 5 ° C

· Information about storage in one common storage facility: Not required.

· Further information about storage conditions: None.

· 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.

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- **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.

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

121-44-8 triethylamine

PEL Long-term value: 100 mg/m , 25 ppm

TLV Short-term value: 1 ppm
Long-term value: 0.5 ppm
Skin, A4

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: 50 ppm

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

TLV Long-term value: 10* ppm
*Inhalable fraction and vapor

- **Regulatory information**

PEL: Guide to Occupational Exposure Values (OSHA PELs)

REL: Guide to Occupational Exposure Values (NIOSH RELs)

TLV: Guide to Occupational Exposure Values (TLV)

- **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)

- **Regulatory information** BEI: Guide to Occupational Exposure Values (BEI)

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

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- **Breathing equipment:**

Short term filter device:

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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: Goggles recommended during refilling.

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Color:

According to product specification

· Odor:

Characteristic

· Odor threshold:

Not determined.

· pH-value:

 Mixture is non-polar/aprotic.
 Range: 7 - 9

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

100 °C (212 °F)

· Flash point:

100 °C (212 °F)

· Flammability (solid, gaseous):

Not applicable.

· Auto igniting:

240 °C (464 °F)

· Decomposition temperature:

Not determined.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:

· Lower:

1.1 Vol %

· Upper:

10.6 Vol %

· Vapor pressure at 20 °C (68 °F):

1.2 hPa (0.9 mm Hg)

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

1.2 g/cm (10.014 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not determined.

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· Evaporation rate	Not determined.	
· Solubility in / Miscibility with	Fully miscible.	
· Water:		
· Partition coefficient (n-octanol/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	60 s (ISO 6 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· Water:	59.6 %	
· VOC content:	1.85 %	
	22.2 g/l / 0.18 lb/gal	
· Solids content:	38.5 %	
· Other information (HAPS)		
121-44-8 triethylamine		<0.5%
112-34-5 2-(2-butoxyethoxy)ethanol		<0.5%
79-10-7 acrylic acid		<0.01%

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** No dangerous reactions known.
- **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	120,000 mg/kg
Dermal	LD50	132,058 mg/kg
Inhalative	LC50/4 h	762 mg/l (mouse)
1384855-91-7 2 propenoic acid, reaction products with dipentaerythritol		
Oral	LD50	2,001 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rabbit)
111-76-2 2-butoxyethanol		
Oral	LD50	1,200 mg/kg (ATE)
		1,414 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (rab)

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Safety Data Sheet

acc. to OSHA HCS

Printing date 04/26/2023

Version number 1

Reviewed on 04/26/2023

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Inhalative	LC50/4 h	11 mg/l (mouse)
121-44-8 triethylamine		
Oral	LD50	730 mg/kg (mouse)
Dermal	LD50	580 mg/kg (rabbit)
Inhalative	LC50/4 h	10.9 mg/l (mouse)
34590-94-8 (2-methoxymethylethoxy)propanol		
Oral	LD50	5,135 mg/kg (mouse)
Dermal	LD50	19,020 mg/kg (rabbit)
112-34-5 2-(2-butoxyethoxy)ethanol		
Oral	LD50	6,600 mg/kg (mouse)
Dermal	LD50	2,764 mg/kg (rabbit)
2682-20-4 2-methyl-2H-isothiazol-3-one		
Oral	LD50	200 mg/kg (mouse)
Dermal	LD50	400 mg/kg (mouse)
Inhalative	LC50/4 h	0.53 mg/l (mouse)
55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)		
Oral	LD50	64 mg/kg (mouse)
Dermal	LD50	87.12 mg/kg (mouse)

- **Primary irritant effect:**

- *on the skin:* No irritant effect.

- *on the eye:* No irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

Irritant

May cause an allergic skin reaction.

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

- **Carcinogenic categories**

Titanium dioxide

IARC's Monograph No. 93 reports there is sufficient evidence of carcinogenicity in experimental rats exposed to titanium dioxide but inadequate evidence for carcinogenicity in humans and has assigned a Group 2B rating. In addition, the IARC summary concludes, "No significant exposure to titanium dioxide is thought to occur during the use of products in which titanium is bound to other materials, such as paint."

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
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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.

US

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12 Ecological information

· Toxicity

· Aquatic toxicity:

1384855-91-7 2 propenoic acid, reaction products with dipentaerythritol

EC50	101 mg/l (algae) (72 h) 35 mg/l (daphnia) (48 h)
LC50 (96h)	13 mg/l (Fish)

111-76-2 2-butoxyethanol

EC50	1,840 mg/l (algae) (72h) 1,550 mg/l (daphnia) (48h)
LC50 (96h)	1,474 mg/l (Fish)

121-44-8 triethylamine

EC50	8 mg/l (algae) (72 h) 17 mg/l (daphnia) (48 h)
LC50 (96h)	36 mg/l (Fish)

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)

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

EC50	1,001 mg/l (daphnia) (48 h)
LC50 (96h)	1,300 mg/l (<i>Leuciscus idus melanotus</i>)

55965-84-9 a mixture of: 5-chloro-2-methyl-2 H -isothiazol-3-one [EC No 247-500-7] and 2-methyl-2 H -isothiazol-3-one [EC No 220-239-6] (3:1)

EC50	0.027 mg/l (algae) (72 h) 0.16 mg/l (daphnia) (48 h)
LC50 (96h)	0.19 mg/l (Fish)

· Persistence and degradability No further relevant information available.

· Substances Easily biodegradable

111-76-2	2-butoxyethanol
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· 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.

· Other adverse effects No further relevant information available.

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.

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- **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 Not applicable
 - Note Check viscosity and flash point at section 9
- **UN proper shipping name**
 - DOT, IMDG, IATA Not applicable
- **Transport hazard class(es)**
 - DOT, ADR/RID, ADN, IMDG, IATA
 - Class Not applicable
- **Packing group**
 - DOT, IMDG, IATA Not applicable
- **Environmental hazards:**
 - Marine pollutant: No
- **Special precautions for user** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.
- **UN "Model Regulation":** Not applicable

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **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	0.5-1%
121-44-8	triethylamine	<0.5%
112-34-5	2-(2-butoxyethoxy)ethanol	<0.5%
79-10-7	acrylic acid	<0.01%

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

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

121-44-8	triethylamine
79-10-7	acrylic acid

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· **Proposition 65**

- **Chemicals known to cause cancer:**
 Titanium dioxide only in bound form

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	only for Dust	12.5-15%
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· **Chemicals known to cause reproductive toxicity for females:**

1589-47-5	2-methoxypropanol		<0.01%
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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	0.5-1%
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· **TLV (Threshold Limit Value)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
111-76-2	2-butoxyethanol	A3
121-44-8	triethylamine	A4
79-10-7	acrylic acid	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	12.5-15%
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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** 04/26/2023
 - **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 2: Flammable liquids . Category 2
 - Flammable Liquids 4: Flammable liquids . Category 4
 - Acute Toxicity - Oral 4: Acute toxicity . Category 4
 - Acute Toxicity - Dermal 2: Acute toxicity . Category 2

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Acute Toxicity - Dermal 3: Acute toxicity . Category 3
 Skin Corrosion 1A: Skin corrosion/irritation . Category 1A
 Skin Corrosion 1B: Skin corrosion/irritation . Category 1B
 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 1A: Skin sensitisation . Category 1A
 Sensitization - Skin 1B: Skin sensitisation . Category 1B
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1
 Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard . Category 3
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1
 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.**