

1 Identification

· Product identifier

- Product number HNS710
- Trade name: **KLIMA CLEAR UNIFORMING IMPREGNATOR**
 - 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

1.3.2 Importer

Name I.C. & S. DISTRIBUTING CO.
Address P.O. BOX 10845
LANCASTER. PA
USA
E-Mail: nelson@ics-company.com

· Information department:

Environmental Health and safety office
hseoffice@ivmchemicals.com

· Emergency telephone number:

ChemTel Expert Assistance Hotline/MSDS 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



Skin Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Acute 2 H401 Toxic 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



GHS07

- Signal word Warning

· Hazard-determining components of labeling:

3-Iodo-2-propynylbutylcarbamate
2,4,7,9-tetramethyldec-5-yne-4,7-diol

· Hazard statements

H317 May cause an allergic skin reaction.
H401 Toxic to aquatic life.
H412 Harmful to aquatic life with long lasting effects.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray
P273 Avoid release to the environment.
P280 Wear protective gloves.

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P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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)**



· **HMIS-ratings (scale 0 - 4)**



3 Composition/information on ingredients

Chemical characterization: Mixtures

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

Dangerous components:

111-76-2	2-butoxyethanol ⚠ Acute Tox. 4, H302; Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 Flam. Liq. 4, H227	2.5-4.99%
34590-94-8	Dipropylene glycol monomethyl ether Flam. Liq. 4, H227	1-<5%
55406-53-6	3-Iodo-2-propynylbutylcarbamate ⚠ Acute Tox. 3, H331 ⚠ STOT RE 1, H372 ⚠ Eye Dam. 1, H318 ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	≥0.5-<1%
107-21-1	ethanediol ⚠ STOT RE 2, H373 ⚠ Acute Tox. 4, H302	<0.5%
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol ⚠ Eye Dam. 1, H318 ⚠ Skin Sens. 1, H317 Flam. Liq. 4, H227; Aquatic Acute 3, H402; Aquatic Chronic 3, H412	≥0.1-<0.5%
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) ⚠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330 ⚠ Skin Corr. 1B, H314 ⚠ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1) ⚠ Skin Sens. 1A, H317	<0.0015%

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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.

· **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**

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

No further relevant information available.

· **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.

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

Formation of toxic gases is possible during heating or in case of fire.

No further relevant information available.

· **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:**

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.

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.

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See Section 13 for disposal information.

· Protective Action Criteria for Chemicals

· PAC-1:		
34590-94-8	Dipropylene glycol monomethyl ether	150 ppm
55406-53-6	3-Iodo-2-propynylbutylcarbamate	3.3 mg/m
577-11-7	docusate sodium	5.7 mg/m
57-55-6	propane-1,2-diol	30 mg/m
107-21-1	ethanediol	30 ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	30 mg/m

· PAC-2:		
34590-94-8	Dipropylene glycol monomethyl ether	1700* ppm
55406-53-6	3-Iodo-2-propynylbutylcarbamate	36 mg/m
577-11-7	docusate sodium	63 mg/m
57-55-6	propane-1,2-diol	1,300 mg/m
107-21-1	ethanediol	150 ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	330 mg/m

· PAC-3:		
34590-94-8	Dipropylene glycol monomethyl ether	9900** ppm
55406-53-6	3-Iodo-2-propynylbutylcarbamate	220 mg/m
577-11-7	docusate sodium	380 mg/m
57-55-6	propane-1,2-diol	7,900 mg/m
107-21-1	ethanediol	900 ppm
126-86-3	2,4,7,9-tetramethyldec-5-yne-4,7-diol	2,000 mg/m

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 constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the other constituents have no known exposure limits.

34590-94-8 Dipropylene glycol monomethyl ether

PEL (USA) Long-term value: 600 mg/m , 100 ppm
Skin

REL (USA) Short-term value: 900 mg/m , 150 ppm
Long-term value: 600 mg/m , 100 ppm
Skin

TLV (USA) Short-term value: 909 mg/m , 150 ppm
Long-term value: 606 mg/m , 100 ppm
Skin

· Ingredients with biological limit values:
111-76-2 2-butoxyethanol

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Use suitable respiratory protective device in case of insufficient ventilation.

· 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.

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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:

Not determined.

· Change in condition

· Melting point/Melting range:

Undetermined.

· Boiling point/Boiling range:

60 °C (140 °F)

· Flash point:

96 °C (204.8 °F)

· Flammability (solid, gaseous):

Not applicable.

· Ignition temperature:

240 °C (464 °F)

· Decomposition temperature:

Not determined.

· Auto igniting:

Product is not selfigniting.

· Danger of explosion:

Product does not present an explosion hazard.

· Explosion limits:

· Lower:

1.1 Vol %

· Upper:

14 Vol %

· Vapor pressure at 20 °C (68 °F):

1.2 hPa (0.9 mm Hg)

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

1.003 g/cm (8.37 lbs/gal)

· Relative density

Not determined.

· Vapor density

Not determined.

· Evaporation rate

Not determined.

· Solubility in / Miscibility with

· Water:

Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water):

Not determined.

· Viscosity:

· Dynamic:

Not determined.

· Kinematic at 20 °C (68 °F):

29 s (ISO 3 mm)

· Oxidising properties:

N.A.

· Solvent content:

· Water:

80.4 %

· VOC content:

8.08 %

81.0 g/l / 0.68 lb/gal

· Solids content:

11.5 %

· Other information (HAPS)

No further relevant information available.

107-21-1	ethanediol	<0.5%
1330-20-7	xylene	<0.1%
98-82-8	cumene	<0.1%
112-34-5	2-(2-butoxyethoxy)ethanol	<0.01%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.01%

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

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:** No further relevant information available.
- **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:**

111-76-2 2-butoxyethanol

Oral	LD50	1,480 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rab)

34590-94-8 Dipropylene glycol monomethyl ether

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

55406-53-6 3-Iodo-2-propynylbutylcarbamate

Oral	LD50	500 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (mouse)

577-11-7 docusate sodium

Oral	LD50	3,001 mg/kg (mouse)
Dermal	LD50	2,525 mg/kg (rabbit)

2226-96-2 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl

Oral	LD50	1,053 mg/kg (mouse)
Dermal	LD50	2,001 mg/kg (mouse)

107-21-1 ethanediol

Oral	LD50	301 mg/kg (mouse)
	LD50.	7,712 mg/kg (mouse)
Dermal	LD50	3,501 mg/kg (mouse)
		9,530 mg/kg (rabbit)
Inhalative	LC50/6 h	2.5 ppm (mouse)

126-86-3 2,4,7,9-tetramethyldec-5-yne-4,7-diol

Oral	LD50	4,600 mg/kg (mouse)
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64742-95-6 Solvent naphtha (petroleum), light arom.

Oral	LD50	6,801 mg/kg (mouse)
Dermal	LD50	3,401 mg/kg (rab)
Inhalative	LC50/4 h	20.1 mg/l (mouse)

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- **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
Contains 3-Iodo-2-propynylbutylcarbamate, 2,4,7,9-tetramethyldec-5-yne-4,7-diol, 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.

· **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)**

2226-96-2	4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl	3
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
98-82-8	cumene	2B

· **NTP (National Toxicology Program)**

98-82-8	cumene	<0.1%
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· **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:**

111-76-2 2-butoxyethanol

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

34590-94-8 Dipropylene glycol monomethyl ether

EC50	970 mg/l (algae) (72 h)
	1,919 mg/l (daphnia) (48 h)
LC50 (96h)	1,001 mg/l (Fish)

55406-53-6 3-Iodo-2-propynylbutylcarbamate

EC50	22 mg/l (algae) (72 h)
	0.16 mg/l (daphnia) (48 h)
LC50 (96h)	67 mg/l (Fish)

577-11-7 docusate sodium

EC50	100 mg/l (algae) (48 h)
	6.6 mg/l (daphnia) (48 h)
LC50 (96h)	17.3 mg/l (Fish)

2226-96-2 4-hydroxy-2,2,6,6-tetramethylpiperidinoxyl

EC50	1,038 mg/l (algae) (72 h)
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LC50 (96h)	54 mg/l (daphnia) (48 h) 545 mg/l (Fish)
64742-95-6 Solvent naphtha (petroleum), light arom.	
EC50	1 mg/l (algae) (72 h) 1 mg/l (daphnia) (48 h)
LC50 (96h)	1 mg/l (Fish)
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	.
34590-94-8	Dipropylene glycol monomethyl ether	.
107-21-1	ethanediol	.

· **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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

· **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.

· **Uncleaned packagings:**

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

14 Transport information

· **UN-Number**

· DOT, ADN, IMDG, IATA

Not applicable

· **UN proper shipping name**

· DOT, ADN, IMDG, IATA

Not applicable

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|--|-----------------|
| · Transport hazard class(es) | |
| · DOT, ADR, 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**

Requirements of Federal Register

- SARA

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

None of the ingredients is listed.

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

111-76-2	2-butoxyethanol	2.5-4.99%
55406-53-6	3-Iodo-2-propynylbutylcarbamate	≥0.5-<1%
107-21-1	ethanediol	<0.5%
95-63-6	1,2,4-trimethylbenzene	<0.1%
1330-20-7	xylene	<0.1%
98-82-8	cumene	<0.1%
112-34-5	2-(2-butoxyethoxy)ethanol	<0.01%
143-22-6	2-[2-(2-butoxyethoxy)ethoxy]ethanol	<0.01%
1344-28-1	aluminium oxide	<0.01%

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

2-butoxyethanol	ACTIVE
Dipropylene glycol monomethyl ether	ACTIVE
3-Iodo-2-propynylbutylcarbamate	ACTIVE
ethanediol	ACTIVE
2,4,7,9-tetramethyldec-5-yne-4,7-diol	ACTIVE

- **Hazardous Air Pollutants**

107-21-1	ethanediol
1330-20-7	xylene
98-82-8	cumene

- **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	<0.1%
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98-82-8	cumene	*	<0.1%
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· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

107-21-1	ethanediol		<0.5%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

111-76-2	2-butoxyethanol	NL	2.5-4.99%
95-63-6	1,2,4-trimethylbenzene	II	<0.1%
1330-20-7	xylene	I	<0.1%
98-82-8	cumene	D, CBD	<0.1%
526-73-8	1,2,3-trimethylbenzene	II	<0.1%

· **TLV (Threshold Limit Value established by ACGIH)**

111-76-2	2-butoxyethanol	A3
107-21-1	ethanediol	A4
112945-52-5	silicon dioxide	A4
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
1330-20-7	xylene	A4

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	<0.1%
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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** 08/07/2019 / -

· **Abbreviations and acronyms:**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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

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BEI: Biological Exposure Limit
Flam. Liq. 4: Flammable liquids . Category 4
Acute Tox. 4: Acute toxicity . Category 4
Acute Tox. 2: Acute toxicity . Category 2
Acute Tox. 3: Acute toxicity . Category 3
Skin Corr. 1B: Skin corrosion/irritation . Category 1B
Skin Irrit. 2: Skin corrosion/irritation . Category 2
Eye Dam. 1: Serious eye damage/eye irritation . Category 1
Eye Irrit. 2A: Serious eye damage/eye irritation . Category 2A
Skin Sens. 1: Skin sensitisation . Category 1
Skin Sens. 1A: Skin sensitisation . Category 1A
STOT RE 1: Specific target organ toxicity (repeated exposure) . Category 1
STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard . Category 1
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 1: Hazardous to the aquatic environment - long-term aquatic hazard . Category 1
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.