

Printing date 08/15/2022 Version number 351 Reviewed on 07/12/2022

1 Identification

- · Product identifier
 - · Product number PZ331
 - · Trade name: LEMON YELLOW TINT. PASTE
 - · 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 Irrititation 2 H315 Causes skin irritation.

Eve Irritation 2A H319 Causes serious eye irritation. H351 Suspected of causing cancer. Carcinogenicity 2

Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated

Exposure 2

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

· Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

n-butyl acetate

xylene

ethylbenzene

2-methoxy-1-methylethyl acetate

· Hazard statements

H226 Flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H336 May cause drowsiness or dizziness.

H373 May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

· Precautionary statements

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

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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)



Health = 2 Fire = 3Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = 2 Fire = 3Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

· Dangero	us components:	
123-86-4	n-butyl acetate	20-24.99%
	Flammable Liquids 3, H226Specific Target Organ Toxicity - Single Exposure 3, H336	
108-65-6	2-methoxy-1-methylethyl acetate	10-12.49%
	Flammable Liquids 3, H226Specific Target Organ Toxicity - Single Exposure 3, H336	
1330-20-7	xylene	10-12.49%
	 Flammable Liquids 3, H226 Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irrititation 2, H315; Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H335 Aquatic Acute 3, H402; Aquatic Chronic 3, H412 	
100-41-4	ethylbenzene Flammable Liquids 2, H225 Carcinogenicity 2, H351; Specific Target Organ Toxicity - Repeated Exposure 2, H373; Aspiration Hazard 1, H304 Acute Toxicity - Inhalation 4, H332 Aquatic Chronic 3, H412	2.5-4.99%
64-17-5	ethanol Triangle Liquids 2, H225 Eye Irritation 2A, H319	<0.5%

- US



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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:

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 eve 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
 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

During heating or in case of fire poisonous gases are produced.

In case of fire, the following can be released:

Nitrogen oxides (NOx)

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

Mount respiratory protective device.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

Keep away from ignition sources

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· Environmental precautions: 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:		
123-86-4	n-butyl acetate	5 ppm
108-65-6	2-methoxy-1-methylethyl acetate	50 ppm
1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
64-17-5	ethanol	1,800 ppm
· PAC-2:		
123-86-4	n-butyl acetate	200 ppm
108-65-6	2-methoxy-1-methylethyl acetate	1,000 ppm
1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppm
64-17-5	ethanol	3300* ppm
· PAC-3:		
123-86-4	n-butyl acetate	3000* ppm
108-65-6	2-methoxy-1-methylethyl acetate	5000* ppm
1330-20-7	xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm
64-17-5	ethanol	15000* 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.

· 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 (Contd. on page 5)



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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.

· Contr	ol parameters
· Con	nponents with limit values that require monitoring at the workplace:
123-86	6-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm
108-6	5-6 2-methoxy-1-methylethyl acetate
WEEL	Long-term value: 50 ppm
1330-2	20-7 xylene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 655 mg/m³, 150 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Short-term value: (150) ppm Long-term value: (100) NIC-20 ppm BEI, A4
100-41	1-4 ethylbenzene
PEL	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m³, 125 ppm Long-term value: 435 mg/m³, 100 ppm
TLV	Long-term value: 20 NIC-20 ppm BEI, A3, NIC: OTO, BEI, A3
64-17-	5 ethanol
PEL	Long-term value: 1900 mg/m³, 1000 ppm
REL	Long-term value: 1900 mg/m³, 1000 ppm
TLV	Short-term value: 1000 ppm A3
	· Ingredients with biological limit values:

1330-20-7 xylene

BEI 1.5 g/g creatinine Medium: urine Time: end of shift

Parameter: Methylhippuric acids

100-41-4 ethylbenzene

BEI 0.15 g/g creatinine

Medium: urine

Time: end of shift at end of workweek

Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific)

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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.

· 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.

· Eve protection:



Tightly sealed goggles

9 Physical and chemical properties

- · Information on basic physical and chemical properties
 - · General Information
 - · Appearance:

· Form: Fluid

· Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

• pH-value at 20 • C (68 • F):

Mixture is non-polar/aprotic.

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· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	Undetermined. 124-128 °C (255.2-262.4 °F)	
· Flash point:	25 °C (77 °F)	
· Flammability (solid, gaseous):	Not applicable.	
· Ignition temperature:	430 °C (806 °F)	
· Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, forn air/vapor mixtures are possible.	nation of explosiv
· Explosion limits: · Lower: · Upper:	1 Vol % 10.8 Vol %	
· Vapor pressure at 20 °C (68 °F):	10.7 hPa (8 mm Hg)	
 Density (+/- 0,03) at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	1.031 g/cm³ (8.604 lbs/gal) Not determined. Not determined. Not determined.	
· Solubility in / Miscibility with · Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/water): Not determined.	
 · Viscosity: · Dynamic: · Kinematic at 20 °C (68 °F): · Oxidising properties: 	Not determined. 60 s (ISO 6 mm) N.A.	
· Solvent content: · Water: · VOC content:	0.0 % 49.09 % 506.1 g/l / 4.22 lb/gal	
· Solids content:	50.9 %	
Other information (HAPS)		
1330-20-7 xylene		10-12.49%
100-41-4 ethylbenzene Other information		2.5-4.99%

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 according to specifications.

Possibility of hazardous reactions

Reacts with oxidizing agents.

Vapours may form explosive mixtures with air

· Conditions to avoid No further relevant information available.

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- · 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/I	LC50 value	es that are relevant for classification:
ATE (Acu	te Toxicit	y Estimate)
Dermal	LD50	9,996 mg/kg (rabbit)
Inhalative	LC50/4 h	86 mg/l (mouse)
123-86-4 r	n-butyl ac	etate
Oral	LD50	10,760 mg/kg (mouse)
Dermal	LD50	14,000 mg/kg (rabbit)
Inhalative	LC50/4 h	21.1 mg/l (mouse)
108-65-6 2	?-methoxy	v-1-methylethyl acetate
Oral	LD50	8,532 mg/kg (mouse)
Dermal	LD50	5,001 mg/kg (rabbit)
Inhalative	LC50/4 h	35.7 mg/l (mouse)
1330-20-7	xylene	
Oral	LD50.	3,523 mg/kg (mouse)
Dermal	LD50	1,100 mg/kg (rabbit) (ATE value)
	LD50.	12,126 mg/kg (rabbit)
Inhalative	LC50/4 h	11 mg/l (mouse) (ATE value)
	LC50/4h.	27.571 mg/l (mouse)
100-41-4 e	ethylbenze	ene
Oral	LD50	3,500 mg/kg (mouse)
Dermal	LD50	15,486 mg/kg (rabbit)
		17.2 mg/l (mouse)
64741-65-	-	a (petroleum), heavy alkylate
Oral	LD50	6,001 mg/kg (mouse)
	LD50	3,001 mg/kg (rabbit)
64-17-5 et		
Oral	LD50	10,470 mg/kg (mouse)
	LD50	20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	124.7 mg/l (mouse)

- · Primary irritant effect:
 - on the skin: Irritant to skin and mucous membranes.
 - · on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

Irritant

Causes skin irritation.

Causes serious eye irritation.

Suspected of causing cancer.

May cause drowsiness or dizziness.

May cause damage to the hearing organs through prolonged or repeated exposure. Route of exposure: Oral, Inhalation.

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· Carcinogenic categories

Ethylbenzene

From IARC MONOGRAPHS VOLUME 77/2000

Human carcinogenicity data

Two studies of workers potentially exposed to ethylbenzene in a production plant and a styrene polymerization plant were available. In the first study, no excess of cancer incidence was found but the description of methods was insufficient to allow proper evaluation of this finding. In the second study, no cancer mortality excess was observed during the follow-up of 15 years.

Evaluation

There is inadequate evidence in humans for the carcinogenicity of ethylbenzene. There is sufficient evidence in experimental animals for the carcinogenicity of ethylbenzene.

- 1	IARC (International Agency for Research on Cancer - Cl. 1 and 2)	
100-41-4	ethylbenzene	2B
64-17-5	ethanol	1 in alcoholic beverages
• 1	NTP (National Toxicology Program)	
None of th	ne ingredients is listed.	
. (OSHA-Ca (Occupational Safety & Health Administration)	
None of th	ne ingredients is listed.	

12 Ecological information

· Toxicity

· Aquatic t	oxicity:
123-86-4 n-	butyl acetate
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96h)	18 mg/l (Fish)
108-65-6 2-	methoxy-1-methylethyl acetate
EC50	1,001 mg/l (algae) (72 h)
	501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)
1330-20-7 x	ylene
EC50	2.2 mg/l (algae)
LC50 48h	1 mg/l (daphnia)
LC50 (96h)	2.6 mg/l (Fish)
100-41-4 et	hylbenzene
EC50	438 mg/l (algae) (72h)
	1.8 mg/l (daphnia) (48 h)
LC50 (96h)	12.1 mg/l (Fish)
64-17-5 eth	anol
EC50	5,012 mg/l (daphnia) (48 h)
LC50 (96h)	15.3 mg/l (Fish)
Porcietono	and degradability. No further relevant information available

· Persistence and degradability No further relevant information available.

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· Substan	ces Easily biodegradable	
123-86-4	n-butyl acetate	
108-65-6	2-methoxy-1-methylethyl acetate	
1330-20-7	· -	
100-41-4	ethylbenzene	

Behavior in environmental systems:

- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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.

· 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

	UI	V- /	Num	ber
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· DOT, IATA UN1263 *· ADN, IMDG* Not applicable

· Note Check viscosity and flash point at section 9

· UN proper shipping name

· DOT Paint

· ADN, IMDG Not applicable · IATA PAINT

· Transport hazard class(es)

 $\cdot DOT$



· Class 3 Flammable liquids

· Label 3

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(Contd. of page 10) Not applicable · Class · IATA 3 Flammable liquids · Class · Label 3 · Packing group · DOT, IATA III· IMDG 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. · Transport/Additional information: $\cdot DOT$ · Remarks: > 450 I: 3 F1, III · IMDG > 450 I: 3, III · Remarks: · UN "Model Regulation": Not applicable

15 Regulatory information

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

Requirements of Federal Register

· Various regulations

	regulations		
· SAR	A		
· S	Section 355 (extremely hazardous substances):		
None of th	e ingredients is listed.		
· S	Section 313 (Specific toxic chemical listings) :		
1330-20-7	xylene		10-12.49%
100-41-4	ethylbenzene	2	2.5-4.99%
67-63-0	propan-2-ol		<0.01%
· TSC	A (Toxic Substances Control Act):		
All compoi	nents have the value ACTIVE.		
· I	Hazardous Air Pollutants		
1330-20-7	xylene		
100-41-4	ethylbenzene		
· Prop	osition 65		
. (Chemicals known to cause cancer:		
100-41-4	ethylbenzene	*	2.5-4.99%



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٠ (Chemicals known to cause reproductive toxicity for females:			
70657-70-	4 2-methoxypropyl acetate			<0.19
٠ (Chemicals known to cause reproductive toxicity for males:			
None of th	e ingredients is listed.			
٠ (Chemicals known to cause developmental toxicity:			
Vone of th	e ingredients is listed.			
· Caro	cinogenic categories			
	EPA (Environmental Protection Agency)			
· L	11 (Livinginian I rotection rigency)			
		1	10-	-12.49
1330-20-7		I D		
1330-20-7 100-41-4	xylene	I D I	2.5	5-4.99%
1330-20-7 100-41-4 78-93-3	xylene ethylbenzene	I D I	2.5	5-4.99%
1330-20-7 100-41-4 78-93-3 • 1	xylene ethylbenzene butanone TLV (Threshold Limit Value)	I D	2.5	5-4.99% 0.01%
1330-20-7 100-41-4 78-93-3 • 1 1330-20-7	xylene ethylbenzene butanone TLV (Threshold Limit Value)	I D	2.5	5-4.99% 0.01% A
1330-20-7 100-41-4 78-93-3 • 1 1330-20-7 100-41-4	xylene ethylbenzene butanone TLV (Threshold Limit Value) xylene	I D	2.5	-12.499 5-4.999 0.01% A

· National regulations:

None of the ingredients is listed.

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 / 350
 - · Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

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 3: Flammable liquids - Category 3

Acute Toxicity - Dermal 4: Acute toxicity - Category 4

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Skin Irrititation 2: Skin corrosion/irritation - Category 2

Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A

Carcinogenicity 2: Carcinogenicity – Category 2
Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3
Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) – Category 2

Aspiration Hazard 1: Aspiration hazard - Category 1

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3 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.