

Safety Data Sheet acc. to OSHA HCS

Printing date 02/12/2024

Version number 623

Reviewed on 01/31/2024

1 Identification

- · Product identifier
 - · Product number TX50
 - Trade name: **POLYURETHANE HARDENER** • 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 2H225 Highly flammable liquid and vapor.Eye Irritation 2AH319 Causes serious eye irritation.Sensitization - Skin 1H317 May cause an allergic skin reaction.Specific Target Organ Toxicity - Single Exposure 3H336 May cause drowsiness or dizziness.

· Label elements

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



· Signal word Danger

- Hazard-determining components of labeling: Aromatic polyisocyanate ethyl acetate isobutyl acetate
 Hazard statements
- H225 Highly flammable liquid and vapor.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H336 May cause drowsiness or dizziness.
- · 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.

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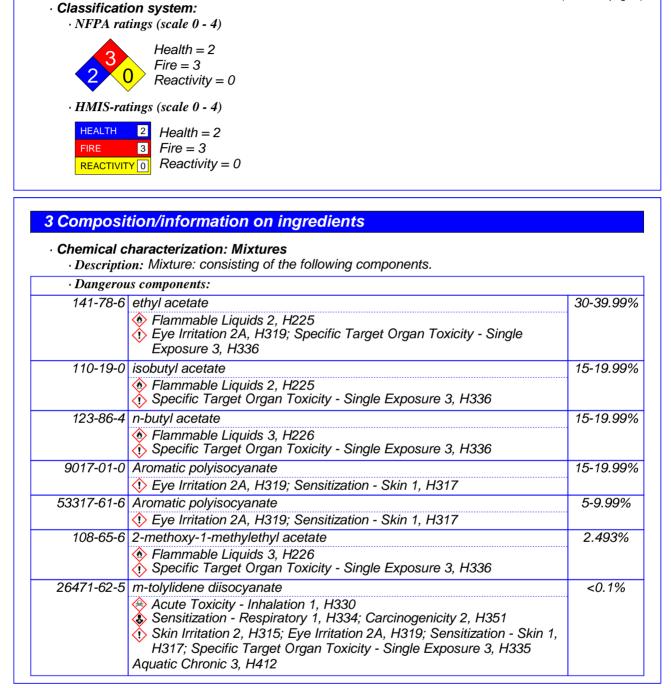
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4 First-aid measures

· 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)

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· 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 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 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 (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 Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources · 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:

141-78-6 ethyl acetate

1,200 ppm (Contd. on page 4)

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110-19-0 isot	outyl acetate	450 ppm	
123-86-4 n-b	ıtyl acetate	5 ppm	
108-65-6 2-m	ethoxy-1-methylethyl acetate	50 ppm	
· PAC-2:			
141-78-6 ethy	/l acetate	1,700 ppm	
110-19-0 isok	outyl acetate	1300* ppm	
123-86-4 n-b	outyl acetate		
108-65-6 2-methoxy-1-methylethyl acetate 1,0		1,000 ppm	
· PAC-3:			
141-78-6 ethy	/l acetate	10000** ppr	
110-19-0 isol	outyl acetate	7500** ppm	
123-86-4 n-b	ıtyl acetate	3000* ppm	
108-65-6 2-m	65-6 2-methoxy-1-methylethyl acetate 5000		

7 Handling and storage

· Handling:

- · Precautions for safe handling
- Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Protect against electrostatic charges. 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.

· Conditions for safe storage, including any incompatibilities

· Storage:

- Requirements to be met by storerooms and receptacles:
- Store in a cool, well-ventilated area, away from heat and sources of ignition
- Provide solvent resistant, sealed floor.
- Observe the label precautions, the expiration date for the use, if not indicated, is from deliverv 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.
- Store in cool, dry conditions in well sealed receptacles.
- · 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 section 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.

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141-78	-6 ethyl acetate
PEL	Long-term value: 1400 mg/m³, 400 ppm
REL	Long-term value: 1400 mg/m³, 400 ppm
TLV	Long-term value: 400 ppm
110-19	-0 isobutyl acetate
PEL	Long-term value: 700 mg/m³, 150 ppm
REL	Long-term value: 700 mg/m³, 150 ppm
TLV	Short-term value: 150 ppm
	Long-term value: 50 ppm
	-4 n-butyl acetate
PEL	Long-term value: 710 mg/m³, 150 ppm
REL	Short-term value: 950 mg/m ³ , 200 ppm
TUV	Long-term value: 710 mg/m ³ , 150 ppm
TLV	Short-term value: 150 ppm Long-term value: 50 ppm
108-65	-6 2-methoxy-1-methylethyl acetate
	Long-term value: 50 ppm
	62-5 m-tolylidene diisocyanate
PEL	Ceiling limit value: 0.14 mg/m ³ , 0.02 ppm
REL	
TLV	Short-term value: (0.14) NIC-0.021* mg/m³, (0.02) NIC-0.003* ppm
	Long-term value: (0.036) NIC-0.007* mg/m³, (0.005) NIC-0.001* ppm
	*(IFV) SEN; NIC-Škin; A3
	· 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)
	WEEL: Guide to Occupational Exposure Values (AIHA WEELs)
• 4	Additional information: The lists that were valid during the creation were used as basis.
· Expos	ure controls
	sonal 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.
/	Avoid contact with the eyes and skin.
	Breathing equipment:
	Short term filter device:
	Suitable respiratory protective device recommended.
	Filter A
· 1	Protection of hands:
	Protective gloves
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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

9 Physical and chemical properties

• General Information • 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: 	77 °C (170.6 °F)
· Flash point:	-4 °C (24.8 °F)
· Flammability (solid, gaseous):	Highly flammable.
· Auto igniting:	315 °C (599 °F)
· Decomposition temperature:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosi air/vapor mixtures are possible.
· Explosion limits:	
· Lower:	1.2 Vol %
· Upper:	11.5 Vol %
· Vapor pressure at 20 $^{\circ}C$ (68 $^{\circ}F$):	97 hPa (72.8 mm Hg)
• Vapor pressure at 50 •C (122 •F):	360 hPa (270 mm Hg)
· Density (+/- 0,03) at 20 °C (68 °F):	0.975 g/cm³ (8.136 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



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· Viscosity:		
· Dynamic:	Not determined.	
• <i>Kinematic at 20 •C (68 •F):</i>	29 s (ISO 3 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	75.61 %	
	737.2 g/l / 6.15 lb/gal	
· Solids content:	24.3 %	
Other information (HAPS)		
26471-62-5 m-tolylidene diisocyana	te	<0.1%

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:

in case of possible formation of combustion: Carbon monoxide and carbon dioxide

11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

141-70-0 (ethyl acetate		
Oral	LD50	4,934 mg/kg (rabbit)	
Dermal	LD50	20,001 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	1,600 mg/l (mouse)	
	LC0	22.6 ppm (mouse)	
110-19-0	sobutyl acetate		
Oral	LD50	13,400 mg/kg (mouse)	
Dermal	LD50	17,401 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	31 mg/l (mouse)	
123-86-4	n-butyl acetate		
Oral	LD50	10,760 mg/kg (mouse)	
Dermal	LD50	14,000 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	21.1 mg/l (mouse)	
9017-01-0	Aromatic polyiso	cyanate	
Oral	LD50	2,001 mg/kg (mouse) (OECD TG 423) Esami tossicologici su un prodotto compatibile	

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	6 Aromatic poly	isocyanate	
Oral	LD50	5,001 mg/kg (mouse)	
108-65-6		thylethyl acetate	
Oral	LD50	8,532 mg/kg (mouse)	
Dermal	LD50	5,001 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saa	at 35.7 mg/l (mouse)	
	5 m-tolylidene d		
Oral	LD50	5,110 mg/kg (mouse)	
Dermal	LD50	9,401 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saa	at 0.107 mg/l (mouse)	
· Prin	nary irritant effect:	:	
	on the skin: No irri		
	on the eye: Irritating		
	sitization: SensitiZ nal toxicological ir	ation possible through skin contact.	
Irritant	nui ionicological ll	y vi nemeviti.	
	s serious eye irrita		
	ause an allergic sk		
	ause drowsiness on ns isocvanates S	or dizziness. ee information supplied by the manufacturer.	
	-		
	cinogenic categorie		
		al Agency for Research on Cancer - Cl. 1 and 2)	
	5 m-tolylidene di	•	2
	NTP (National Tox		
	5 m-tolylidene di	•	<0.1
		tional Safety & Health Administration)	
None of th	ne ingredients is l	isted.	
	sitisation		
	nomers / polymers ticular characteri	s isocyanate stics / effects; prolonged exposure may irritate the ey	ies nose thr
	respiratory tract.	silos / enecis, proiongeo exposure may initale me ey	03, 1103C, 1111
anu	yanate exposure	may result in the delayed appearance of respiratory dis	
lsoo		individuals may show exposure symptoms to isoc	
lsoo ast			
lsoo ast		s. Prolonged skin contact may result cause irritation and	
lsoo ast		s. Prolonged skin contact may result cause irritation and	
lsoo ast wor			
Isoo ast wor Ecologi	kplace TLV value		
Isod ast wor Ecologi Toxicity	kplace TLV value <mark>cal informatio</mark>		
Isoc ast wor Ecologi Toxicity · Aquatio	kplace TLV value cal informatio		
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6	kplace TLV value cal informatio toxicity: ethyl acetate	n	
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6 EC50	kplace TLV value cal informatio toxicity: ethyl acetate 165 n	ng/l (daphnia) (48 h)	
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6 EC50 LC50 (96	kplace TLV value cal informatio toxicity: ethyl acetate 165 n ore/h/saat) 230 n	ng/l (daphnia) (48 h)	
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6 EC50 LC50 (96 110-19-0	kplace TLV value cal informatio toxicity: ethyl acetate 165 n ore/h/saat) 230 n isobutyl acetate	ng/l (daphnia) (48 h) ng/l (Fish)	
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6 EC50 LC50 (96	kplace TLV value cal informatio toxicity: ethyl acetate (165 n ore/h/saat) 230 n isobutyl acetate 370 n	ng/l (daphnia) (48 h) ng/l (Fish) ng/l (algae) (72 h)	
Isoc ast wor Ecologi Toxicity · Aquatic 141-78-6 EC50 LC50 (96 110-19-0 EC50	kplace TLV value cal informatio cal informat	ng/l (daphnia) (48 h) ng/l (Fish)	



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123-86-4	n-butyl aceta	nte	(Contd. of page)
EC50	-	97 mg/l (algae) (72 l	h)
		4 mg/l (daphnia) (48	
LC50 (96 ore/h/saat) 18 mg/l (Fish)			
•		-methylethyl acetat	/e
EC50	1	,001 mg/l (algae) (72	2 h)
	5	01 mg/l (daphnia) (4	18 h)
LC50 (96 ore/h/saat) 134 mg/l (Fish)		34 mg/l (Fish)	
26471-62	-5 m-tolylide	ne diisocyanate	
EC50	1	2.5 mg/l (daphnia) (4	48h)
LC50 (96	ore/h/saat) 1	33 mg/l (Leuciscus i	dus melanotus)
Persister	nce and degr	adability No further	relevant information available.
· Substa	nces Easily bio	degradable	
141-78-6	ethyl acetate		
110-19-0	isobutyl acet	ate	
123-86-4	123-86-4 n-butyl acetate		
108-65-6	2-methoxy-1-	-methylethyl acetate	
· Behavior	' in environm	ental systems:	-
· Bioacc	umulative pote	ential	
141-78-6	ethyl acetate		Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 0,68
110-19-0	isobutyl acet	ate	Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 2,3
123-86-4	n-butyl acetate		Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 2,3
108-65-6	2-methoxy-1-methylethyl acetate		Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 1,2
· Mobili	ty in soil		
141-78-6	ethyl acetate	Basso potenzial	e di adsorbimento nel suolo
110-19-0	isobutyl acet	ate Adsorbimento/de	esorbimento log Koc: 1,19
		information:	
Do no	hazard class		: slightly hazardous for water quantities of it to reach ground water, water course

· 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.

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	
FLAMMABLE LIQUO	
· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
· Label	3
Packing group	
· DOT, IMDG, IATA	11
Environmental hazards:	
• Marine pollutant:	No
	Varning: Flammable liquids
 Hazard identification number (Kemler code EMS Number: 	
• EMS NUMBER: • Stowage Category	F-E, <u>S-E</u> B
	-
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	lot applicable.
Transport/Additional information:	,,
· IMDG	
\cdot Limited quantities (LQ)	5L
\cdot Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: ml
	Maximum net quantity per outer packagir
	500 ml

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POLYURETHANE HARDENER Trade name:

· UN "Model Regulation":

UN 1263 PAINT, 3, II

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the subst	ance or
<i>mixture</i> Requirements of Federal Register	
· Various regulations	
· SARA	
· Section 355 (extremely hazardous substances):	
None of the ingredients is listed.	
· Section 313 (Specific toxic chemical listings) :	
26471-62-5 m-tolylidene diisocyanate	<0.1%
· TSCA (Toxic Substances Control Act):	
All components have the value ACTIVE.	
· Hazardous Air Pollutants	
None of the ingredients is listed.	
· Proposition 65	
· Chemicals known to cause cancer:	
26471-62-5 m-tolylidene diisocyanate *	<0.1%
· Chemicals known to cause reproductive toxicity for females:	
70657-70-4 2-methoxypropyl acetate	<0.01%
· 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)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value)	
26471-62-5 m-tolylidene diisocyanate	(A4)
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
· National regulations:	
The product is subject to be labeled according with the prevailing version of the regula	ations 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 02/12/2024

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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 Sul	ostances
ELINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemic	al 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	
Flammable Liquids 2: Flammable liquids – Category 2	
Flammable Liquids 3: Flammable liquids – Category 3 Acute Toxicity - Inhalation 1: Acute toxicity – Category 1	
Skin Irritation 2: Skin corrosion/irritation – Category 2	
Eye Irritation 2. Skin corrosion/initiation – Category 2 Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A	
Sensitization - Respiratory 1: Respiratory sensitisation – Category	1
Sensitization - Kespiratory 1. Kespiratory sensitisation – Category 1 Sensitization - Skin 1: Skin sensitisation – Category 1	
Carcinogenicity 2: Carcinogenicity – Category 2	
Specific Target Organ Toxicity - Single Exposure 3: Specific target	organ toxicity (single exposure) – Category 3
Aquatic Chronic 3: Hazardous to the aquatic environment - long-ter	
Sources	aquate natura category e
REGULATION (EC) No 1272/2008 OF THE EL	JRUFEAN PARLIAMENT AND UF I
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.	