

## Chemicals

Printing date 02/12/2024

## Safety Data Sheet acc. to OSHA HCS

Version number 205

Reviewed on 02/07/2024

## **1** Identification

- · Product identifier
  - · Product number TX110
  - 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

## $\cdot$ 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: Polyisocyanate HDI/TDI n-butyl acetate HDI Homopolymer ethyl 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. P201: P251 If an akin (ar heir): Take off immediately all conteminated electring. Pine

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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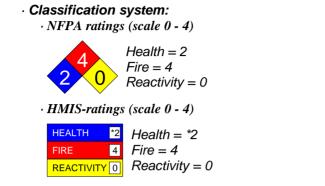
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## 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

123-86-4	n-butyl acetate	
<ul> <li>Flammable Liquids 3, H226</li> <li>Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>		
26426-91-5	Polyisocyanate HDI/TDI	20-24.99%
	🚸 Eye Irritation 2A, H319; Sensitization - Skin 1, H317	
141-78-6	ethyl acetate	12.5-15%
	<ul> <li>Flammable Liquids 2, H225</li> <li>Eye Irritation 2A, H319; Specific Target Organ Toxicity - Single Exposure 3, H336</li> </ul>	
28182-81-2	HDI Homopolymer	10-12.49%
	Acute Toxicity - Inhalation 4, H332; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
108-94-1	cyclohexanone	1-2.49%
	<ul> <li>Flammable Liquids 3, H226</li> <li>Eye Damage 1, H318</li> <li>Acute Toxicity - Oral 4, H302; Acute Toxicity - Dermal 4, H312; Acute Toxicity - Inhalation 4, H332; Skin Irritation 2, H315</li> </ul>	
822-06-0	hexamethylene diisocyanate	<0.1%
	<ul> <li>Acute Toxicity - Inhalation 1, H330</li> <li>Sensitization - Respiratory 1, H334</li> <li>Acute Toxicity - Oral 4, H302; Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335</li> </ul>	
26471-62-5	<ul> <li>m-tolylidene diisocyanate</li> <li>Acute Toxicity - Inhalation 1, H330</li> <li>Sensitization - Respiratory 1, H334; Carcinogenicity 2, H351</li> <li>Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335</li> <li>Aquatic Chronic 3, H412</li> </ul>	<0.1%

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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:*
- 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. 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.

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<ul> <li>Reference</li> <li>See Section</li> <li>See Section</li> </ul>	quate ventilation. t <b>o other sections</b> 7 for information on safe handling. 8 for information on personal protection equipment. 13 for disposal information.	((	Contd. of page 3)
	Action Criteria for Chemicals		
· PAC-1:			
	n-butyl acetate		5 ppm
141-78-6	ethyl acetate		1,200 ppm
28182-81-2	HDI Homopolymer		7.8 mg/m³
108-94-1	cyclohexanone		60 ppm
· PAC-2:			
123-86-4	n-butyl acetate		200 ppm
141-78-6	ethyl acetate		1,700 ppm
28182-81-2	HDI Homopolymer		86 mg/m³
108-94-1	cyclohexanone		830 ppm
· PAC-3:			
123-86-4	n-butyl acetate	3	000* ppm
141-78-6	ethyl acetate	1	0000** ppm
28182-81-2	HDI Homopolymer	5	10 mg/m³
108-94-1	cyclohexanone	5	000* ppm

## 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 delivery date of goods.
  - In cases where there is no reported expiration date , it means that the product must be used within 8 months.
  - · Information about storage in one common storage facility: Not required.
  - $\cdot$  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.

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## 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

#### · Control parameters

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- 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.

	36-4 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	
141-7	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	
108-9	94-1 cyclohexanone	
PEL	Long-term value: 200 mg/m³, 50 ppm	
REL	Long-term value: 100 mg/m³, 25 ppm Skin	
TLV	Short-term value: 50 ppm Long-term value: 20 ppm Skin, BEI, A3	
822-0	06-0 hexamethylene diisocyanate	
REL	Long-term value: 0.035 mg/m³, 0.005 ppm Ceiling limit value: 0.14* mg/m³, 0.02* ppm *10-min	
TLV	Long-term value: 0.005 ppm BEI	
2647	1-62-5 m-tolylidene diisocyanate	
PEL	Ceiling limit value: 0.14 mg/m³, 0.02 ppm	
REL	LFC	
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-Skin; A3	
	<ul> <li>Regulatory information</li> <li>PEL: Guide to Occupational Exposure Values (OSHA PELs)</li> <li>REL: Guide to Occupational Exposure Values (NIOSH RELs)</li> <li>TLV: Guide to Occupational Exposure Values (TLV)</li> </ul>	
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400	· Ingredients with biological limit values:
	-94-1 cyclohexanone
BLI	80 mg/L Medium: urine Time: end of shift at end of workweek Parameter: 1.2-Cyclohexanediol (with hydrolysis, nonspecific, nonquantitative) 8 mg/L Medium: urine Time: end of shift
	Parameter: Cyclohexanol (with hydrolysis, nonspecific, nonquantitative)
822	-06-0 hexamethylene diisocyanate
DEI	15 μg/g creatinine Medium: urine Time: end of shift Parameter: 1.6-Hexamethylene diamine with hydrolysis (nonspecific)
	Regulatory information BEI: Guide to Occupational Exposure Values (BEI)     Additional information: The lists that were valid during the creation were used as basis.
	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 • 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 diffusi and the degradation The glove material has to be impermeable and resistant to the product . • Material of gloves

• 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.

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· Eye protection:



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Tightly sealed goggles

Information on basic physical and o	chemical properties	
• General Information • Color:	Colorless	
· Odor:	Characteristic	
• Odor threshold:	Not determined.	
· pH-value:	Mixture is non-polar/aprotic.	
· Change in condition		
<ul> <li>Melting point/Melting range:</li> </ul>	Undetermined.	
<ul> <li>Boiling point/Boiling range:</li> </ul>	77 °C (170.6 °F)	
· Flash point:	-4 °C (24.8 °F)	
· Flammability (solid, gaseous):	Highly flammable.	
· Auto igniting:	370 °C (698 °F)	
· Decomposition temperature:	Not determined.	
• Danger of explosion:	Product is not explosive. However, formation of exp air/vapor mixtures are possible.	plosiv
· Explosion limits:		
· Lower:	1.2 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (72.8 mm Hg)	
• Vapor pressure at 50 $\bullet C$ (122 $\bullet F$ ):	360 hPa (270 mm Hg)	
· Density (+/- 0,03) at 20 °C (68 °F):	0.993 g/cm³ (8.287 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.	
• <i>Kinematic at 20 •C (68 •F):</i>	29 s (ISO 3 mm)	
· Oxidising properties:	N.A.	
· Solvent content:		
· VOC content:	65.21 %	
	647.5 g/l / 5.40 lb/gal	
· Solids content:	34.7 %	
Other information (HAPS)		
822-06-0 hexamethylene diisocyan	ate	<0.1%



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26471-62-5 m-tolylidene diisocyanate

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## 10 Stability and reactivity

- · Reactivity typical of the product as indicated in the data sheet
- **Chemical stability** The product is stable in normal conditions of storage and use recommended • Thermal decomposition / conditions to be avoided:
  - No decomposition if used 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 Suspected of damaging fertility or the unborn child. • Acute toxicity:

	te Toxicity Estima	relevant for classification:	
•	-		
Oral	LD50	94,500 mg/kg	
Dermal	LD50	55,000 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	71.1 mg/l	
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)	
26426-91-	5 Polyisocyanate	HDI/TDI	
Oral	LD50	5,001 mg/kg (mouse)	
141-78-6	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)	
28182-81-	2 HDI Homopolym	er	
Oral	LD50	2,501 mg/kg (mouse)	
Dermal	LD50	2,001 mg/kg (rabbit)	
108-94-1	cyclohexanone		
Oral	LD50	1,890 mg/kg (mouse)	
Dermal	LD50	1,100 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	6.3 mg/l (mouse)	
822-06-0	hexamethylene dii	socyanate	
Oral	LD50	738 mg/kg (mouse)	



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Dermal	LD50	7,001 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	0.124 mg/l (mouse)	
26471-62-	5 m-tolylidene diis	socyanate	
Oral	LD50	5,110 mg/kg (mouse)	
Dermal	LD50	9,401 mg/kg (rabbit)	
Inhalative	LC50/4 ore/h/saat	0.107 mg/l (mouse)	
• 6 • 6 • 7 • Sens • Addition Irritant Causes May ca May ca Contain As from May ca	on the eye: Irritating effect. Causes serious eye sitization: Sensitizat nal toxicological info s serious eye irritation use an allergic skin ause drowsiness or ns isocyanates. See n 24 August 2023 a ause drowsiness or	ion possible through skin contact. <b>prmation:</b> or reaction. dizziness. a information supplied by the manufacturer. dequate training is required before industrial or professional	use.
	cinogenic categories ARC (International 2	Agency for Research on Cancer - Cl. 1 and 2)	
	5 m-tolylidene diiso		2B
· 1	NTP (National Toxic	ology Program)	
26471-62-	5 m-tolylidene diiso	ocyanate	<0.1%
· (	OSHA-Ca (Occupatio	onal Safety & Health Administration)	
None of th	ne ingredients is list	ed.	
Mor Par and Isoc asti	l respiratory tract. cyanate exposure m hma. Sensitive in	socyanate cs / effects; prolonged exposure may irritate the eyes, no ay result in the delayed appearance of respiratory disorders dividuals may show exposure symptoms to isocyanat Prolonged skin contact may result cause irritation and dehyd	, cough or es below
· Toxicity	cal information		

• Aquatic toxicity:	
123-86-4 n-butyl ace	etate
EC50	397 mg/l (algae) (72 h)
	44 mg/l (daphnia) (48 h)
LC50 (96 ore/h/saat)	18 mg/l (Fish)
141-78-6 ethyl aceta	te
EC50	165 mg/l (daphnia) (48 h)
LC50 (96 ore/h/saat)	230 mg/l (Fish)
28182-81-2 HDI Hom	nopolymer
EC50	1,001 mg/l (algae) (72 h)
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		127 mg/l (daphnia) (48 h)	
	· · · · ·	100 mg/l (Fish)	
	cyclohexan		
EC50		101 mg/l (algae) (72 h)	
		101 mg/l (daphnia)	
· ·		527 mg/l (Fish)	
	-	lene diisocyanate	
EC50		77.5 mg/l (algae) (72 h)	
		89.2 mg/l (daphnia) (48 h)	
•	,	82.9 mg/l (Fish)	
	-5 m-tolylide	ene diisocyanate	
EC50		12.5 mg/l (daphnia) (48h)	
		133 mg/l (Leuciscus idus melanotus)	
· Persisten	ice and deg	radability No further relevant information available.	
· Substar	nces Easily bi	iodegradable	
	n-butyl aceta		
	ethyl acetate		
	cyclohexand		
· Behavior	in environn	mental systems:	
	umulative pot		
123-86-4	n-butyl aceta	ate Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 2,3	
141-78-6	ethyl acetate	e Coefficiente di ripartizione n-ottanolo/acqua (Log Kow): 0,68	
· Mobilit	ty in soil		
141-78-6	ethyl acetate	e Basso potenziale di adsorbimento nel suolo	
· Genera Water Do not sewag	al notes: hazard class t allow undilu ve system.	al information: s 1 (Self-assessment): slightly hazardous for water uted product or large quantities of it to reach ground water, water course s No further relevant information available.	or
13 Disposa	al conside	erations	

#### · 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.

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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 LQUD	
3	
Class	2 Elommoble liquide
· Class · Label	3 Flammable liquids 3
· Class	3 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
Special precautions for user	Warning: Flammable liquids
• Hazard identification number (Ke	emler code): 33
• EMS Number:	F-E, <u>S-E</u>
· Stowage Category	В
Transport in bulk according to Ann MARPOL73/78 and the IBC Code	nex II of Not applicable.
Transport/Additional information:	
· IMDG	
· Limited quantities (LQ)	5L
$\cdot Excepted$ quantities ( $\widetilde{EQ}$ )	Code: E2
	Maximum net quantity per inner packaging:
	ml
	Maximum net quantity per outer packagir
	500 ml
UN "Model Regulation":	UN 1263 PAINT, 3, II

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## 15 Regulatory information

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<b>mixture</b> Requireme	ealth and environmental regulations/legislation specific for the sub nts of Federal Register regulations	stance or
	ection 355 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· Se	ection 313 (Specific toxic chemical listings) :	
	hexamethylene diisocyanate	<0.1%
26471-62-5	m-tolylidene diisocyanate	<0.1%
· TSCA	(Toxic Substances Control Act):	
All compon	ents have the value ACTIVE.	
·H	azardous Air Pollutants	
822-06-0 h	examethylene diisocyanate	
· Prope	osition 65	
· C	hemicals known to cause cancer:	
26471-62-5	m-tolylidene diisocyanate	* <0.1%
· C	hemicals known to cause reproductive toxicity for females:	
None of the	e ingredients is listed.	
· C	hemicals known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
· C	hemicals known to cause developmental toxicity:	
	a ingredients is listed.	
· Carci	nogenic categories	
$\cdot E$	PA (Environmental Protection Agency)	
None of the	e ingredients is listed.	
$\cdot T$	LV (Threshold Limit Value)	
108-94-1	cyclohexanone	A3
26471-62-5	m-tolylidene diisocyanate	(A4)
$\cdot N$	IOSH-Ca (National Institute for Occupational Safety and Health)	
	a ingredients is listed.	
· National	regulations:	

· 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 02/12/2024
  - Abbreviations and acronyms:
  - IMDG: International Maritime Code for Dangerous Goods



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(Contd. of page 12) 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 - Inhalation 1: Acute toxicity – Category 1 Acute Toxicity - Inhalation 4: Acute toxicity – Category 4 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Damage 1: Serious eye damage/eye irritation - Category 1 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Sensitization - Respiratory 1: Respiratory 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-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  $\cdot$  \* Data compared to the previous version altered. US