

Reviewed on 08/27/2014

## 1 Identification

- · Product identifier
  - · Product number TO96

• Trade name: CLEAR 10SH POLYURETHANE

- 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.

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## 2 Hazard(s) identification

· Classification of the substance or mixture



GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



Skin Irrit. 2 H315 Causes skin irritation.

## · 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: ethylbenzene toluene
- · Hazard statements
- H225 Highly flammable liquid and vapor.
- H315 Causes skin irritation.
- H351 Suspected of causing cancer.
- H361 Suspected of damaging fertility or the unborn child.

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	(Contd. of page
· Precautionar	
P303+P301-	+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminate
	clothing. Rinse skin with water/shower.
P501	Dispose of contents/container in accordance with local/regional/nationa international regulations.
· Classification sy.	stem:
· NFPA rating	
· NFFA Tuing	s (scale 0 - 4)
	Health = 2
	Fire = 3
$\sim 2 \times 0$	Reactivity = 0
· HMIS-rating	s(scale 0, 4)
· mmis-ruing	s (scale 0 - 4)
HEALTH *2	
FIRE 3	Fire = 3
REACTIVITY 0	Reactivity = 0

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# 3 Composition/information on ingredients

## · Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	30-49.9%
	Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332	5-9.99%
141-78-6	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2.5-4.99%
108-65-6	2-methoxy-1-methylethyl acetate	1-2.49%
110-19-0	isobutyl acetate	1-2.49%
108-88-3	toluene Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336	1-2.49%
64-17-5	ethanol 🚸 Flam. Liq. 2, H225	0.5-<1%
4742-95-6	Solvent naphtha (petroleum), light arom. Flam. Liq. 3, H226 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 STOT SE 3, H335-H336	0.1-<0.5%

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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.

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· After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- 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 eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Do not induce vomiting; immediately call for medical help.

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, 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.
- $\cdot$  Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- · Advice for firefighters
  - · 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.
 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. Do not flush with water or aqueous cleansing agents
 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.

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## 7 Handling and storage

· 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.

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- Observe the label precautions, the expiration date for the use, if 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.
- · 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 item 7.

#### · Control parameters

· Con	nponents with limit values that require monitoring at the workplace:
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: 651 mg/m³, 150 ppm Long-term value: 434 mg/m³, 100 ppm BEI
100-41	-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: 87 mg/m³, 20 ppm BEI
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: 1440 mg/m³, 400 ppm
108-65	-6 2-methoxy-1-methylethyl acetate
WEEL	Long-term value: 50 ppm
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110-	(Contd. of page 19-0 isobutyl acetate
PEL	Long-term value: 700 mg/m³, 150 ppm
REL	
TLV	
	88-3 toluene
PEL	
	Ceiling limit value: 300; 500* ppm
	*10-min peak per 8-hr shift
REL	
	Long-term value: 375 mg/m <sup>3</sup> , 100 ppm
TLV	5 7 11
	BEI
	· Ingredients with biological limit values:
	-20-7 xylene
	1.5 g/g creatinine
	Medium: urine Time: end of shift
	Parameter: Methylhippuric acids
	41-4 ethylbenzene
	0.7 g/g creatinine
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	-
	Medium: end-exhaled air
	Time: not critical
	Parameter: Ethyl benzene (semi-quantitative) 88-3 toluene
	0.02 mg/L Medium: blood
	Time: prior to last shift of workweek
	Parameter: Toluene
	0.03 mg/L
	Medium: urine Time: end of shift
	Parameter: Toluene
	0.3 mg/g creatinine
	Medium: urine
	Time: end of shift Parameter: o-Cresol with hydrolysis (background)
	• Additional information: The lists that were valid during the creation were used as basis.
_	
-	osure controls
$\cdot P$	ersonal 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 skin.
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coatings & polymers technologies

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Avoid contact with the eyes and	d skin. (Contd. of page 5)
	w pollution use respiratory filter device. In case of intensive or y protective device that is independent of circulating air.
Protective gloves	
Selection of the glove material and the degradation The glove material has to be in • Material of gloves The selection of the suitab further marks of quality and a preparation of several su calculated in advance and h • Penetration time of glove mat	me has to be found out by the manufacturer of the protective
Tightly sealed goggle	9S
9 Physical and chemical prope	rties
9 Physical and chemical prope	rties
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance:	rties chemical properties
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form:	rties chemical properties Fluid
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color:	rties chemical properties Fluid According to product specification
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor:	rties chemical properties Fluid According to product specification Characteristic
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odour threshold:	rties chemical properties Fluid According to product specification Characteristic Not determined.
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odour threshold: • pH-value:	rties chemical properties Fluid According to product specification Characteristic
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range:	rties chemical properties Fluid According to product specification Characteristic Not determined. Not determined. Undetermined.
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odor: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range: • Boiling point/Boiling range:	rties chemical properties Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 77 °C (171 °F)
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range:	rties chemical properties Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 77 °C (171 °F) -4 °C (25 °F)
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range: • Boiling point/Boiling range: • Flash point:	rties chemical properties Fluid According to product specification Characteristic Not determined. Not determined. Undetermined. 77 °C (171 °F)
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range: • Boiling point/Boiling range: • Flash point: • Flammability (solid, gaseous):	rties         chemical properties         Fluid         According to product specification         Characteristic         Not determined.         Not determined.         Undetermined.         77 °C (171 °F)         -4 °C (25 °F)         Not applicable.
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odor: • Odor: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range: • Boiling point/Boiling range: • Flash point: • Flammability (solid, gaseous): • Ignition temperature:	rties         chemical properties         Fluid         According to product specification         Characteristic         Not determined.         Not determined.         Undetermined.         77 °C (171 °F)         -4 °C (25 °F)         Not applicable.         315 °C (599 °F)
9 Physical and chemical prope • Information on basic physical and • General Information • Appearance: • Form: • Color: • Odor: • Odor: • Odor: • Odour threshold: • pH-value: • Change in condition • Melting point/Melting range: • Boiling point/Boiling range: • Flash point: • Flammability (solid, gaseous): • Ignition temperature: • Decomposition temperature:	rties         chemical properties         Fluid         According to product specification         Characteristic         Not determined.         Not determined.         Undetermined.         77 °C (171 °F)         -4 °C (25 °F)         Not applicable.         315 °C (599 °F)         Not determined.

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· Explosion limits:		
Lower:	1.0 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	97 hPa (73 mm Hg)	
• Density at 20 •C (68 •F):	0.977 g/cm³ (8.153 lbs/gal)	
· Relative density	Not determined.	
· Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wa	ater): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
• <i>Kinematic at 20</i> • <i>C</i> (68 • <i>F</i> ):	55 s (ISO 6 mm)	
· Solvent content:		
· Water:	0.2 %	
· VOC content:	52.4 %	
	511.8 g/l / 4.27 lb/gl	
· Solids content:	47.4 %	
Other information (HAPS)		
1330-20-7 xylene		30-49.9%
100-41-4 ethylbenzene		5-9,99%
108-88-3 toluene		1-2,49%

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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 and stored according to specifications.
- **Possibility of hazardous reactions** Reacts with strong acids and oxidizing agents. Vapours may form explosive mixtures with air
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

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

## 11 Toxicological information

### · Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:			
1330-20	-7 xylene		
Oral	LD50	4300 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	

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Dermal	LD50	2000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	(Contd. of pag
	ethylbenze		
Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	17800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
	ethyl aceta		
Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
Dermal	LD50	>20000 mg/kg (Con)	
Inhalative	LC0/6 h	>22.5 ppm (mouse)	
	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
108-65-6	2-methoxy	/-1-methylethyl acetate	
Oral	LD50	8532 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	5001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
Inhalative	LC50	10.8 mg/l (rat/szczur/mouse/souris/Maus/ratón) (6 h)	
	LC50/4 h		
110-19-0 i	isobutyl a		
Oral	LD50	13400 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	17401 mg/kg (Con)	
Inhalative	LC50/4 h	31 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
108-88-3 1	toluene	1	
Oral	LD50	5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	12124 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
Inhalative	LC50/4 h	5320 mg/l (mouse) (4 h)	
64-17-5 et	thanol		
Oral	LD50	7060 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	20000 mg/kg (Con)	
Inhalative	LC50/4 h	20000 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
64742-95-	6 Solvent	naphtha (petroleum), light arom.	
Oral	LD50	>6800 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	>3400 mg/kg (rab)	
Inhalative	LC50/4 h	>10.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
• c • c • Sens • Additio Causes	on the eye: sitization: N nal toxicolo s skin irrita	<i>: Irritant to skin and mucous membranes.</i> No irritating effect. No sensitizing effects known. ogical information:	
Harmfu Irritant • Care		categories	
	-	rnational Agency for Research on Cancer)	
	0-7 xylene		
	1-4 ethylbe		2
	0-8 Precip	itated silica (Silica-Amorphous)	
112926-00			
	8-3 toluene	e	<b>\</b>

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· NTP (National Toxicology Program)

14808-60-7 Quartz (SiO2)

· OSHA-Ca (Occupational Safety & Health Administration)

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None of the ingredients is listed.

## **12 Ecological information**

· Toxicity

• Aquatic toxicity:

1330-20-7 xylene

EC50 1 mg/l (daphnia)

141-78-6 ethyl acetate

EC50 164 mg/l (daphnia)

LC50 (96h) (daphnia)

108-65-6 2-methoxy-1-methylethyl acetate

EC50 408 mg/l (daphnia) (48 h)

110-19-0 isobutyl acetate

EC50 25 mg/l (daphnia)

108-88-3 toluene

EC50

- 134 mg/l (algae)
  - 3.78 mg/l (invertebrates)

· Persistence and degradability No further relevant information available.

- · 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.

4.4.5			4.5
14 I r	anspor	t intorn	nation
17 11	anspon		

· UN-Number

· DOT

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	(Contd. of page
· IMDG, IATA	UN1263
· UN proper shipping name	
· DOT	Paint
· IMDG, IATA	PAINT
· Transport hazard class(es)	
·DOT	
FLAMMABLE LOUD	
3	
· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
· Label	3
· IMDG, IATA	
V	
· Class	3 Flammable liquids
· Label	3
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	33
· EMS Number:	F-E, <u>S-E</u>
· Transport in bulk according to Annex	r II of
MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· IMDG	
$\cdot$ Limited quantities (LQ)	5L
$\cdot$ Excepted quantities ( $\widetilde{EQ}$ )	Code: E1
	Maximum net quantity per inner packagi 30 ml
	Maximum net quantity per out
	packaging: 1000 ml
· UN "Model Regulation":	UN1263, Paint, special provision 640H, 3, III
· 014 mouel Regulation :	0111200, raint, special provision $0400$ , 5, III

## 15 Regulatory information

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

Requirements of Federal Register

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· SAR	1	(Contd. of page 10
· S	ection 355 (extremely hazardous substances):	
None of the	e ingredients is listed.	
· S	ection 313 (Specific toxic chemical listings) :	
1330-20-7	xylene	
100-41-4	ethylbenzene	
108-88-3	toluene	
78-93-3	butanone	
· TSC	A (Toxic Substances Control Act):	
All ingredie	nts are listed.	
· Prop	osition 65	
· C	hemicals known to cause cancer:	
100-41-4	ethylbenzene	
14808-60-7	Quartz (SiO2)	
· C	hemicals known to cause reproductive toxicity for females:	
108-88-3	toluene	
70657-70-4	2-methoxypropyl acetate	
· C	hemicals known to cause reproductive toxicity for males:	
None of the	e ingredients is listed.	
· C	hemicals known to cause developmental toxicity:	
108-88-3 t	oluene	
64-17-5 e	ethanol	
· Carc	inogenic categories	
· E	PA (Environmental Protection Agency)	
1330-20-7	xylene	1
100-41-4	ethylbenzene	D
108-88-3	toluene	
·T	LV (Threshold Limit Value established by ACGIH)	
1330-20-7	zylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
64-17-5	ethanol	A3
14808-60-7	Quartz (SiO2)	A2
· N	IOSH-Ca (National Institute for Occupational Safety and Health)	
14808-60-7	Quartz (SiO2)	

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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

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Contact: See emergency phone	
· Date of preparation / last revision 08/27/2014 / 16	
· 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 Flam. Liq. 2: Flammable liquids, Hazard Category 2	
Flam. Liq. 2. Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3	
Acute Tox. 4: Acute toxicity, Hazard Category 4	
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2	
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2	
Carc. 2: Carcinogenicity, Hazard Category 2	
Repr. 2: Reproductive toxicity, Hazard Category 2	
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3	
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2	
Asp. Tox. 1: Aspiration hazard, Hazard Category 1	
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2	
· Sources	
Directive 1999/45/EC and following amendments	
Directive 67/548/EEC and following amendments and adjustments	
Agency ECHA web site	
INRS Fiche Toxicologique	
IARC International agency for research on cancer	
• * Data compared to the previous version altered.	

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