

Reviewed on 12/16/2014

1 Identification

· Product identifier

- · Product number PL50
- · Trade name: WHITE POLYURETHANE SATIN FINISH

• Relevant identified uses of the substance or mixture and uses advised against Paint and relative material only for wood • 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.

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2 Hazard(s) identification

· Classification of the substance or mixture



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.

GHS07

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
- · 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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Product number PL5 Trade name: WHI	0 ITE POLYURETHANE SATIN FINISH
	(Contd. of page 1)
· Precautional	•
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): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P321	Specific treatment (see on this label).
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/ international regulations.
· Classification sy	stem:
· NFPA rating	rs (scale 0 - 4)
030	Health = 0 Fire = 3 Reactivity = 0
· HMIS-rating	gs (scale 0 - 4)
HEALTH 0 FIRE 3 REACTIVITY 0	Fire = 3

-						
3	Com	position/	Inform	ation (on indre	edients
•						

· Chemical characterization: Mixtures

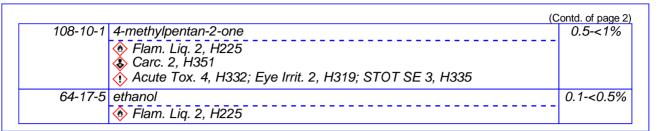
1330-20-7	xylene	15-19.9%
	 Flam. Liq. 3, H226 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315 	
110-19-0	isobutyl acetate Flam. Liq. 2, H225	5-9.99%
100-41-4	ethylbenzene Flam. Liq. 2, H225 Carc. 2, H351 Acute Tox. 4, H332	2.5-4.99%
141-78-6	ethyl acetate Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	1-2.49%
78-93-3	butanone Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	1-2.49%
123-86-4	n-butyl acetate Flam. Liq. 3, H226 STOT SE 3, H336	1-<10%
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	0.5-<1%



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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.

· 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:

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.
- · 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 product to reach sewage system or any water course.
 Inform respective authorities in case of seepage into water course or sewage system.
 Do not allow to enter sewers/ surface or ground water.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to Section 13.

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Ensure a	adequate ventilation.
Do not fi	lush with water or aqueous cleansing agents
· Referen	ce to other sections
	ction 7 for information on safe handling.
	ction 8 for information on personal protection equipment.
See Sec	ction 13 for disposal information.
7 Handli	ing and storage
	ions for safe handling
	good ventilation/exhaustion at the workplace.
	formation of aerosols.
	against electrostatic charges.
Use exp	losion-proof apparatus / fittings and spark-proof tools.
	mation about protection against explosions and fires:
	ignition sources away - Do not smoke.
Prote	ect against electrostatic charges.
· Conditi	ons for safe storage, including any incompatibilities
· Stora	
	equirements to be met by storerooms and receptacles:
	tore in a cool, well-ventilated area, away from heat and sources of ignition
	rovide solvent resistant, sealed floor.
	bserve the label precautions, the expiration date for the use, if indicated, is from delivery
	ate of goods. I cases where there is no reported expiration date , it means that the product must be used
	ithin 8 months.
	formation about storage in one common storage facility: Not required.
	urther information about storage conditions:
	eep receptacle tightly sealed.
	tore in cool, dry conditions in well sealed receptacles.
· Specific	c end use(s) Those typical of the product and the instructions in the data sheet if required.
8 Expos	ure controls/personal protection
	ional information about design of technical systems: No further data; see item 7.
	parameters
	parameters of the parameters of the second sec
-	-7 xylene
	ng-term value: 435 mg/m³, 100 ppm
	nort-term value: 655 mg/m³, 150 ppm
	ng-term value: 435 mg/m³, 100 ppm
	nort-term value: 651 mg/m³, 150 ppm
	ng-term value: 434 mg/m³, 100 ppm
BE	
	0 isobutyl acetate
PEL Lo	ng-term value: 700 mg/m³, 150 ppm
	ng-term value: 700 mg/m³, 150 ppm

TLV Long-term value: 713 mg/m³, 150 ppm

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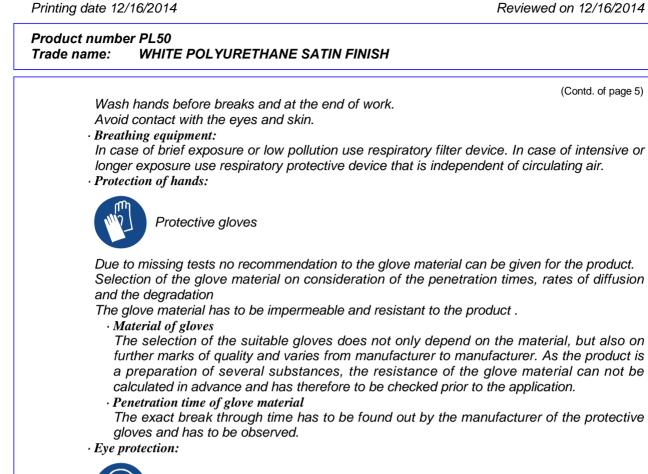
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	11-4 ethylbenzene
	Long-term value: 435 mg/m³, 100 ppm
REL	Short-term value: 545 mg/m ³ , 125 ppm
-	Long-term value: 435 mg/m³, 100 ppm
ILV	Long-term value: 87 mg/m³, 20 ppm BEI
141-7	78-6 ethyl acetate
	Long-term value: 1400 mg/m³, 400 ppm
	Long-term value: 1400 mg/m ³ , 400 ppm
	Long-term value: 1440 mg/m ³ , 400 ppm
	3-3 butanone
	Long-term value: 590 mg/m³, 200 ppm
	Short-term value: 885 mg/m ³ , 300 ppm
	Long-term value: 590 mg/m ³ , 200 ppm
TLV	Short-term value: 885 mg/m ³ , 300 ppm
	Long-term value: 590 mg/m ³ , 200 ppm
	BEI
	36-4 n-butyl acetate
	Long-term value: 710 mg/m ³ , 150 ppm
REL	Short-term value: 950 mg/m³, 200 ppm Long-term value: 710 mg/m³, 150 ppm
TLV	Short-term value: 950 mg/m³, 200 ppm
ILV	Long-term value: 713 mg/m ³ , 150 ppm
	· Ingredients with biological limit values:
	-20-7 xylene
	1.5 g/g creatinine
	Medium: urine Time: end of shift
	Parameter: Methylhippuric acids
	11-4 ethylbenzene
	0.7 g/g creatinine
	Medium: urine
	Time: end of shift at end of workweek
1	Parameter: Sum of mandelic acid and phenylglyoxylic acid (nonspecific, semi-quantitative)
	- Medium: end-exhaled air
	Time: not critical
	Parameter: Ethyl benzene (semi-quantitative)
	3-3 butanone
BEI 2	2 mg/L
	Medium: urine
	Time: end of shift
	Parameter: MEK
	• Additional information: The lists that were valid during the creation were used as basis.
-	osure controls
	ersonal protective equipment: · General protective and hygienic measures:
	Keep away from foodstuffs, beverages and feed.
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Chemicals

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Tightly sealed goggles

9 Physical and chemical properties

 Information on basic physical 	and chemical properties
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· General Information	
· Appearance:	
· Form:	Fluid
· Color:	According to product specification
· Odor:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
• Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	77 °C (171 °F)
· Flash point:	-4 °C (25 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	370 °C (698 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
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		(Contd. of page
· Explosion limits:		
- Lower:	1.0 Vol %	
· Upper:	11.5 Vol %	
· Vapor pressure at 20 °C (68 °F):	105 hPa (79 mm Hg)	
• Density at 20 •C (68 •F):	1.311 g/cm³ (10.94 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/water):	Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic at 20 °C (68 °F):	55 s (ISO 6 mm)	
· Solvent content:		
· VOC content:	35.3 %	
	462.4 g/l / 3.86 lb/gl	
· Solids content:	64.2 %	
· Other information (HAPS)		
1330-20-7 xylene		15-19.9%
100-41-4 ethylbenzene		2,5-4,99%
108-88-3 toluene		0.5-<1%
108-10-1 4-methylpentan-2-one		0.5-<1%

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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 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

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· Acute t		cological effects	
· LD/	LC50 value	s that are relevant for classification:	
1330-20-7	xylene		
Oral	LD50	4300 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	2000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
110-19-0	isobutyl a	cetate	
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)	
100-41-4	ethylbenz	ene	
Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	17800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
141-78-6	ethyl aceta	ate	
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)	
78-93-3 b	utanone		
Oral	LD50	3300 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	5000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
123-86-4	n-butyl ac	etate	
Oral	LD50	10760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	14000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)	
Inhalative	LC50/4 h	>21.0 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
108-88-3	toluene		
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)	
108-10-1	4-methylp	entan-2-one	
Oral	LD50	2080 mg/kg (rat/szczur/mouse/souris/Maus/ratón)	
Dermal	LD50	16000 mg/kg (rab)	
Inhalative	LC50/4 h	16.6 mg/l (rat/szczur/mouse/souris/Maus/ratón)	
64-17-5 ei	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)	
۰c		t effect: Irritant to skin and mucous membranes. No irritating effect.	

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Harmful	(C	ontd. of page 8)
IARC's experir inadeq additio signific which a as pair		2B rating. Ir	n
	C (International Agency for Research on Cancer)		
13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B Dust	
1330-20-7	xylene	3	1
100-41-4	ethylbenzene	2B	1
112926-00-8	Precipitated silica (Silica-Amorphous)	3	1
108-88-3	toluene	3	1
108-10-1	4-methylpentan-2-one	2B	1
108-94-1	cyclohexanone	3	1
67-63-0	propan-2-ol	3	1
	Quartz (SiO2)	1	1
	2,6-di-tert-butyl-p-cresol	3	1
· NTI	P (National Toxicology Program)		ĺ
	Quartz (SiO2)	K	1
· OSI	HA-Ca (Occupational Safety & Health Administration)	· · · ·	ī
	ngredients is listed.		1

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12 Ecological information

$\cdot Aquatic t$	oxicity:	
1330-20-7 х	ylene	
EC50	1 mg/l (daphnia)	
110-19-0 is	obutyl acetate	
EC50	25 mg/l (daphnia)	
141-78-6 et	hyl acetate	
EC50	164 mg/l (daphnia)	
LC50 (96h)	(daphnia)	
123-86-4 n-	butyl acetate	
EC50	648 mg/l (algae) 72h	
	44 mg/l (daphnia) 48h	
LC50 (96h)	18 mg/l (Fish)	
108-88-3 to	luene	
EC50	134 mg/l (algae)	
	3.78 mg/l (invertebrates)	
Persistence	e and degradability No further relevant information available.	
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· 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 · UN-Number $\cdot DOT$ NA1263 · IMDG, IATA UN1263 · UN proper shipping name Paint $\cdot DOT$ · IMDG, IATA PAINT · Transport hazard class(es) $\cdot DOT$ · Class 3 Flammable liquids · Label 3 3 Flammable liquids · Class · Label 3 · IMDG, IATA 3 Flammable liquids · Class · Label 3 · Packing group · DOT, IMDG, IATA III(Contd. on page 11)

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• Environmental hazards: • Marine pollutant:	No
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids 33 F-E, <u>S-E</u>
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	Il of Not applicable.
· Transport/Additional information:	
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per oute packaging: 1000 ml
· UN ''Model Regulation'':	UN1263, Paint, special provision 640H, 3, III

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15 Regulatory information

 Safety, health and environmental regulations/legislation specific for the sub mixture 	stance or
Requirements of Federal Register	
SA DA	

	•	SAI	VA	
_	_			_

• Section 355 (extremely hazardous substances):
None of the ingredients is listed.

· Section 313	(Specific toxic	chemical listings) :

1330-20-7	xylene

100-41-4 ethylbenzene

78-93-3 butanone

108-88-3 toluene

108-10-1 4-methylpentan-2-one

67-63-0 propan-2-ol

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

· Chemicals known to cause cancer: 13463-67-7 Titanium dioxide C.I. 77891 Pigment white 6

100-41-4 ethylbenzene

108-10-1 4-methylpentan-2-one

14808-60-7 Quartz (SiO2)

· Chemicals known to cause reproductive toxicity for females:

108-88-3 toluene

70657-70-4 2-methoxypropyl acetate

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	Chemicals known to cause reproductive toxicity for males:	
None of th	e ingredients is listed.	
· (Chemicals known to cause developmental toxicity:	
108-88-3	toluene	
108-10-1	-methylpentan-2-one	
64-17-5	ethanol	
· Car	cinogenic categories	
·]	EPA (Environmental Protection Agency)	
1330-20-7	xylene	1
100-41-4	ethylbenzene	Ľ
78-93-3	butanone	1
108-88-3	toluene	
108-10-1	4-methylpentan-2-one	1
• 7	TLV (Threshold Limit Value established by ACGIH)	
13463-67-	7 Titanium dioxide C.I. 77891 Pigment white 6	A4
1330-20-	7 xylene	A4
100-41-	4 ethylbenzene	A3
108-88-	3 toluene	A4
108-94-	1 cyclohexanone	A
67-63-	0 propan-2-ol	A4
64-17-	5 ethanol	A3
14808-60-	7 Quartz (SiO2)	A2
128-37-	0 2,6-di-tert-butyl-p-cresol	A4
	NIOSH-Ca (National Institute for Occupational Safety and Health)	
13463-67-	7 Titanium dioxide C.I. 77891 Pigment white 6	
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

· Contact: See emergency phone

Date of preparation / last revision 12/16/2014 / 22
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)

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(Contd. of page 12) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent 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 · 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 \cdot * Data compared to the previous version altered.

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