

Printing date 10/14/2015

Version number 28

Reviewed on 10/14/2015

1 Identification

- · Product identifier
 - · Product number LGA2027
 - · Trade name: PU CLEAR TOPCOAT 7SH
 - · 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



GHS02 Flame

Flam. Lig. 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.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eve Irrit. 2A H319 Causes serious eve irritation.

STOT SE 3 H335 May cause respiratory irritation.

· Label elements

· GHS label elements

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

· Hazard pictograms







GHS02 GHS07

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

xvlene

ethylbenzene

toluene

ethyl acetate

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· Hazard statements

H225 Highly flammable liquid and vapor.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H335 May cause respiratory irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

· 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.

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 1

Fire = 3

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = *1

Fire = 3

Reactivity = 0

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture: consisting of the following components.

1330-20-7	xylene	25-29.9%
	 Flam. Liq. 3, H226 STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335 	
100-41-4	ethylbenzene	5-9,99%
	 Flam. Liq. 2, H225 Carc. 2, H351; STOT RE 2, H373; Asp. Tox. 1, H304 Acute Tox. 4, H332 	
141-78-6	ethyl acetate	2,5-4,99%
	 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 	

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108-88-3	toluene	2,5-4,99%
	 Flam. Liq. 2, H225 Repr. 2, H361; STOT RE 2, H373; Asp. Tox. 1, H304 Skin Irrit. 2, H315; STOT SE 3, H336 Aquatic Chronic 3, H412 	
110-19-0	isobutyl acetate	2,5-4,99%
	♦ Flam. Liq. 2, H225	
123-86-4	n-butyl acetate	0.1-<10%
	♦ Flam. Liq. 3, H226♦ STOT SE 3, H336	
108-65-6	2-methoxy-1-methylethyl acetate	1-2,49%
	♦ Flam. Liq. 3, H226	

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:

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. 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, 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

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.

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· 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.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

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.
- · 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.

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PU CLEAR TOPCOAT 7SH Trade name:

Parameter: Methylhippuric acids

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	ol parameters	
	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	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: 87 mg/m³, 20 ppm BEI	
141-78	3-6 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	
108-88	3-3 toluene	
PEL	Long-term value: 200 ppm Ceiling limit value: 300; 500* ppm *10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 75 mg/m³, 20 ppm BEI	
110-19	9-0 isobutyl acetate	
PEL	Long-term value: 700 mg/m³, 150 ppm	
REL	Long-term value: 700 mg/m³, 150 ppm	
TLV	Short-term value: NIC-712 mg/m³, NIC-150 ppm Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm	
123-86	5-4 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: (950) NIC-712 mg/m³, (200) NIC-150 ppm Long-term value: (713) NIC-238 mg/m³, (150) NIC-50 ppm	
108-65	5-6 2-methoxy-1-methylethyl acetate	
WEEL	Long-term value: 50 ppm	
	· Ingredients with biological limit values:	
1330-2	20-7 xylene	
M	.5 g/g creatinine ledium: urine ïme: end of shift	



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100-41-4 ethylbenzene

BEI 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)

108-88-3 toluene

BEI 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.

· 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.

Pregnant women should strictly avoid inhalation or skin contact.

. Rreathing equinment

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

· 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.

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• 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 c	nemical	proper	ties

· Infori	mation	on on	basic	physi	ical and	l chemi	ical	properties	3
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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: 315 °C (599 °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.

· 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): 0.987 g/cm³ (8.237 lbs/gal)

Relative density
Vapour density
Evaporation rate
Not determined.
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): 60 s (ISO 6 mm)

· Oxidising properties: N.A.

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· Solvent content:		
· Water:	0.4 %	
· VOC content:	51.3 %	
	505.8 g/l / 4.22 lb/gl	
· Solids content:	48.4 %	
· Other information (HAPS)		
1330-20-7 xylene		25-29.9%
100-41-4 ethylbenzene		5-9,99%
108-88-3 toluene		2,5-4,99%
1330-20-7 xylene		0.5-<1%
Other information	No further relevant information available.	

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
 - $\cdot \textit{Thermal decomposition / conditions to be avoided:} \\$

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:

	•	
· <i>LD</i> /	LC50 value	es that are relevant for classification:
1330-20-7	xylene	
Oral	LD50	3523 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1701 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
100-41-4	ethylbenz	ene
Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	15486 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	17.2 mg/l (rat/szczur/mouse/souris/Maus/ratón)
141-78-6	ethyl aceta	ate
Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20001 mg/kg (Con)
Inhalative	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
	LC0	22.6 ppm (mouse)
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108-88-3 1	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	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
110-19-0 i	sobutyl 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)
123-86-4 i	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	21.1 mg/l (rat/szczur/mouse/souris/Maus/ratón)
108-65-6 2	2-methoxy	v-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	LC50/4 h	35.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)

- · 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:

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging the unborn child.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated exposure.

Irritant

· Carcinogenic categories

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.

· IARC (International Agency for Research on Cancer - Cl. 1 and 2)	
100-41-4 ethylbenzene	2B
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· OSHA-Ca (Occupational Safety & Health Administration)	
None of the ingredients is listed.	



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12 Ecological information

· Toxicity

· TOXICITY	
· Aquatic t	oxicity:
100-41-4 et	hylbenzene
EC50	75 mg/l (daphnia) (48 h)
141-78-6 et	hyl acetate
EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 mg/l (Fish)
108-88-3 to	luene
EC50	134 mg/l (algae) (3 h)
	3.78 mg/l (daphnia) (48 h)
	58 mg/l (Fish)
110-19-0 is	obutyl acetate
EC50	370 mg/l (algae) (72 h)
	25 mg/l (daphnia)
LC50 (96h)	17 mg/l (Fish)
123-86-4 n-	butyl acetate
EC50	648 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	1001 mg/l (algae) (72 h)
	501 mg/l (daphnia) (48 h)
LC50 (96h)	134 mg/l (Fish)

- · Persistence and degradability No further relevant information available.
- 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.

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· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

UN-Number	
· DOT	NA 1263
· IMDG, IATA	UN1263
UN proper shipping name	
$\cdot DOT$	Paint
· IMDG, IATA	PAINT
Transport hazard class(es)	
\cdot DOT	
FLAMMABLE LIQUID	
3	
· Class	3 Flammable liquids
· Class · Label	3 Fiammable liquids
· Class	3 Flammable liquids
· Cuss · Label	3 riammable liquids 3
· IMDG, IATA	
3	
· Class	3 Flammable liquids
\cdot Label	3
Packing group	
· DOT, IMDĠ, IATA	III
Environmental hazards:	
· Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	-
· EMS Number:	F-E, <u>S-E</u>
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
Transport/Additional information:	. тот арриоамо.
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1
Encopieu quantinos (Eg)	Maximum net quantity per inner packaging: 3
	ml
	Maximum net quantity per outer packaging
	1000 ml



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· UN "Model Regulation":

UN 1263 PAINT, SPECIAL PROVISION 640H, 3, III

15 Regulatory information

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

Requirements of Federal Register

- · SARA
 - · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

- · Section 313 (Specific toxic chemical listings): 1330-20-7 xylene 25-29.9% 100-41-4 ethylbenzene 5-9,99% 108-88-3 toluene 2,5-4,99%
 - · TSCA (Toxic Substances Control Act):

All ingredients are listed.

· Proposition 65

1330-20-7 xylene

· Chemicals known to cause cancer:

100-41-4 ethylbenzene 5-9,99%

·Chem	· Chemicals known to cause reproductive toxicity for females:				
108-88-3	toluene	2,5-4,99%			
70657-70-4	2-methoxypropyl acetate	<0.01%			
1589-47-5	2-methoxypropanol	<0.01%			

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

- · Chemicals known to cause developmental toxicity:
- 108-88-3 toluene

2,5-4,99%

0.5-<1%

· Carcinogenic categories

curemogenic curegories				
· EPA (Environmental Protection Agency)				
1330-20-7	xylene	I	25-29.9%	
100-41-4	ethylbenzene	D	5-9,99%	
108-88-3	toluene	II	2,5-4,99%	
1330-20-7	xylene	I	0.5-<1%	

· TLV (Threshold	I imit Value	ostablished by	ACGIH)

	· TLV	(Threshold Limit Value established by ACGIH)	
Г	1330-20-7	xylene	A4
Γ	100-41-4	ethylbenzene	A3
	108-88-3		A4
Γ	1330-20-7	xylene	A4

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

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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 10/14/2015 / 27
 - · 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. 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

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

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 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

· 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.