

1 Identification

- **Product identifier**
 - Product number TP511
 - Trade name: **CLEAR ACRYLIC GLOSS URETHANE**
- **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. 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

STOT SE 3 H336 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**



GHS02



GHS07



GHS08

- **Signal word** Danger

- **Hazard-determining components of labeling:**

ethylbenzene

toluene

4-methylpentan-2-one

- **Hazard statements**

H225 Highly flammable liquid and vapor.

H351 Suspected of causing cancer.

H361 Suspected of damaging fertility or the unborn child.

H336 May cause drowsiness or dizziness.

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· **Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



· **HMIS-ratings (scale 0 - 4)**



















3 Composition/information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

123-86-4	n-butyl acetate  Flam. Liq. 3, H226  STOT SE 3, H336	15- <50%
110-19-0	isobutyl acetate  Flam. Liq. 2, H225	5-9.99%
1330-20-7	xylene  Flam. Liq. 3, H226  Acute Tox. 4, H312; Acute Tox. 4, H332; Skin Irrit. 2, H315	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  Flam. Liq. 3, H226	2.5-4.99%
78-93-3	butanone  Flam. Liq. 2, H225  Eye Irrit. 2, H319; STOT SE 3, H336	1-2.49%
100-41-4	ethylbenzene  Flam. Liq. 2, H225  Carc. 2, H351  Acute Tox. 4, H332	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%

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108-10-1	4-methylpentan-2-one ⚠ Flam. Liq. 2, H225 ⚠ Carc. 2, H351 ⚠ Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	1-2.49%
108-94-1	cyclohexanone ⚠ Flam. Liq. 3, H226 ⚠ Acute Tox. 4, H332	1-2.49%

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; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **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 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.

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

· Components with limit values that require monitoring at the workplace:

123-86-4 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 mg/m³, 200 ppm

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

1330-20-7 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

141-78-6 ethyl acetate

PEL Long-term value: 1400 mg/m³, 400 ppm

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REL Long-term value: 1400 mg/m³, 400 ppmTLV Long-term value: 1440 mg/m³, 400 ppm**108-65-6 2-methoxy-1-methylethyl acetate**

WEEL Long-term value: 50 ppm

78-93-3 butanonePEL Long-term value: 590 mg/m³, 200 ppmREL Short-term value: 885 mg/m³, 300 ppm
Long-term value: 590 mg/m³, 200 ppmTLV Short-term value: 885 mg/m³, 300 ppm
Long-term value: 590 mg/m³, 200 ppm
BEI**100-41-4 ethylbenzene**PEL Long-term value: 435 mg/m³, 100 ppmREL Short-term value: 545 mg/m³, 125 ppm
Long-term value: 435 mg/m³, 100 ppmTLV Long-term value: 87 mg/m³, 20 ppm
BEI**108-88-3 toluene**PEL Long-term value: 200 ppm
Ceiling limit value: 300; 500* ppm
*10-min peak per 8-hr shiftREL Short-term value: 560 mg/m³, 150 ppm
Long-term value: 375 mg/m³, 100 ppmTLV Long-term value: 75 mg/m³, 20 ppm
BEI**108-10-1 4-methylpentan-2-one**PEL Long-term value: 410 mg/m³, 100 ppmREL Short-term value: 300 mg/m³, 75 ppm
Long-term value: 205 mg/m³, 50 ppmTLV Short-term value: 307 mg/m³, 75 ppm
Long-term value: 82 mg/m³, 20 ppm
BEI**108-94-1 cyclohexanone**PEL Long-term value: 200 mg/m³, 50 ppmREL Long-term value: 100 mg/m³, 25 ppm
SkinTLV Long-term value: 50 mg/m³, 20 ppm
Skin**· Ingredients with biological limit values:****1330-20-7 xylene**BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids**78-93-3 butanone**

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BEI 2 mg/L
 Medium: urine
 Time: end of shift
 Parameter: MEK

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)

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

BEI 1 mg/L
 Medium: urine
 Time: end of shift
 Parameter: MIBK

108-94-1 cyclohexanone

BEI 80 mg/L
 Medium: urine
 Time: end of shift at end of workweek
 Parameter: 1,2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)

8 mg/L
 Medium: urine
 Time: end of shift
 Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative)

· *Additional information:* The lists that were valid during the creation were used as basis.

· Exposure controls**· Personal protective equipment:**

· *General protective and hygienic measures:* Wash hands before breaks and at the end of work.

· Breathing equipment:

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.

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· **Protection of hands:**

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

· **Information on basic physical and chemical properties**

· **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):**

105 hPa (79 mm Hg)

· **Density at 20 °C (68 °F):**

0.942 g/cm³ (7.861 lbs/gal)

· **Relative density**

Not determined.

· **Vapour density**

Not determined.

· **Evaporation rate**

Not determined.

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· 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):	40 s (ISO 4 mm)	
· Solvent content:		
· VOC content:	55.8 % 526.2 g/l / 4.39 lb/gl	
· Solids content:	44.2 %	
· Other information (HAPS)		
1330-20-7	xylene	5-9,99%
100-41-4	ethylbenzene	1-2,49%
108-88-3	toluene	1-2,49%
108-10-1	4-methylpentan-2-one	1-2,49%

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**
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** Suspected of damaging fertility or the unborn child.
- **Acute toxicity:**

· LD/LC50 values that are relevant for classification:		
123-86-4 n-butyl acetate		
Oral	LD50	10760 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	14000 mg/kg (rabbit/królik/Kaninchen/conejo/lapín)
Inhalative	LC50/4 h	>21.0 mg/l (rat/szczur/mouse/souris/Maus/ratón)
110-19-0 isobutyl acetate		
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)

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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)
141-78-6 ethyl acetate		
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	35.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)
78-93-3 butanone		
Oral	LD50	3300 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	5000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
100-41-4 ethylbenzene		
Oral	LD50	3500 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	17800 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
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-methylpentan-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)
108-94-1 cyclohexanone		
Oral	LD50	1535 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	1100 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	11 mg/l (rat/szczur/mouse/souris/Maus/ratón)

- **Primary irritant effect:**

- *on the skin:* No irritant effect.
- *on the eye:* No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

- May cause drowsiness or dizziness.
- May cause drowsiness or dizziness.

- **Carcinogenic categories**

· IARC (International Agency for Research on Cancer)		
1330-20-7	xylene	3
100-41-4	ethylbenzene	2B
108-88-3	toluene	3
108-10-1	4-methylpentan-2-one	2B
108-94-1	cyclohexanone	3

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67-63-0 propan-2-ol

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· **NTP (National Toxicology Program)**

None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

123-86-4 n-butyl acetate

EC50	648 mg/l (algae) 72h
	44 mg/l (daphnia) 48h

LC50 (96h)	18 mg/l (Fish)
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110-19-0 isobutyl acetate

EC50	25 mg/l (daphnia)
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1330-20-7 xylene

EC50	1 mg/l (daphnia)
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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)
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108-88-3 toluene

EC50	134 mg/l (algae) 3.78 mg/l (invertebrates)
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108-94-1 cyclohexanone

EC50	100 mg/l (algae) 72h
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· **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.

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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**

· DOT	NA1263
· IMDG, IATA	UN1263

· **UN proper shipping name**

· DOT	Paint
· IMDG, IATA	PAINT

· **Transport hazard class(es)**

· DOT



· Class	3 Flammable liquids
· Label	3
· Class	3 Flammable liquids
· Label	3

· IMDG, IATA



· Class	3 Flammable liquids
· Label	3

· **Packing group**

· DOT, IMDG, IATA	II
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· **Environmental hazards:**

· Marine pollutant:	No
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· **Special precautions for user**

Warning: Flammable liquids

· Danger code (Kemler):	33
· EMS Number:	F-E, S-E

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:**

· **IMDG**

· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml

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· UN "Model Regulation": UN1263, Paint, special provision 640D, 3, II

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
78-93-3	butanone
100-41-4	ethylbenzene
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:

100-41-4	ethylbenzene
108-10-1	4-methylpentan-2-one

· Chemicals known to cause reproductive toxicity for females:

108-88-3	toluene
70657-70-4	2-methoxypropyl acetate

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

108-88-3	toluene
108-10-1	4-methylpentan-2-one

· Carcinogenic categories

· EPA (Environmental Protection Agency)

1330-20-7	xylene	I
78-93-3	butanone	I
100-41-4	ethylbenzene	D
108-88-3	toluene	II
108-10-1	4-methylpentan-2-one	I

· TLV (Threshold Limit Value established by ACGIH)

1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3
108-88-3	toluene	A4
108-94-1	cyclohexanone	A3

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67-63-0 propan-2-ol

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 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** 08/27/2014 / 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)

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

· *** Data compared to the previous version altered.**