

## 1 Identification

- **Product identifier**
  - *Product number* LRR50
  - *Trade name:* **PE PRIMER STYRENE FREE**
    - *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. Liq. 2 H225 Highly flammable liquid and vapor.



GHS08 Health hazard

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



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **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:*

methacrylic acid, monoester with propane-1,2-diol

- *Hazard statements*

H225 Highly flammable liquid and vapor.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H361 Suspected of damaging fertility or the unborn child.

- *Precautionary statements*

P210

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

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- 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.

· **Dangerous components:**

27813-02-1	methacrylic acid, monoester with propane-1,2-diol ⚠ Eye Irrit. 2A, H319; Skin Sens. 1, H317	5-9.99%
67-64-1	acetone ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	5-9.99%
141-78-6	ethyl acetate ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2A, H319; STOT SE 3, H336	5-9.99%
123-86-4	n-butyl acetate ⚠ Flam. Liq. 3, H226 ⚠ STOT SE 3, H336	0.1-<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 Aquatic Chronic 3, H412	0.5-1%

### 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 and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

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- **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**  
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.
  - **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.
- **Protective Action Criteria for Chemicals**

· PAC-1:		
471-34-1	calcium carbonate	45 mg/m3
67-64-1	acetone	200 ppm
141-78-6	ethyl acetate	1,200 ppm
123-86-4	n-butyl acetate	5 ppm
108-88-3	toluene	67 ppm
57-55-6	propane-1,2-diol	30 mg/m3
78-93-3	butanone	200 ppm

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1330-20-7	xylene	130 ppm
100-41-4	ethylbenzene	33 ppm
96-29-7	2-butanone oxime	30 ppm
108-83-8	2,6-dimethylheptan-4-one	75 ppm

**· PAC-2:**

471-34-1	calcium carbonate	210 mg/m3
67-64-1	acetone	3200* ppm
141-78-6	ethyl acetate	1,700 ppm
123-86-4	n-butyl acetate	200 ppm
108-88-3	toluene	560 ppm
57-55-6	propane-1,2-diol	1,300 mg/m3
78-93-3	butanone	2700* ppm
1330-20-7	xylene	920* ppm
100-41-4	ethylbenzene	1100* ppm
96-29-7	2-butanone oxime	56 ppm
108-83-8	2,6-dimethylheptan-4-one	330 ppm

**· PAC-3:**

471-34-1	calcium carbonate	1,300 mg/m3
67-64-1	acetone	5700* ppm
141-78-6	ethyl acetate	10000** ppm
123-86-4	n-butyl acetate	3000* ppm
108-88-3	toluene	3700* ppm
57-55-6	propane-1,2-diol	7,900 mg/m3
78-93-3	butanone	4000* ppm
1330-20-7	xylene	2500* ppm
100-41-4	ethylbenzene	1800* ppm
96-29-7	2-butanone oxime	250 ppm
108-83-8	2,6-dimethylheptan-4-one	2000* ppm

## 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.

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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.

· **Control parameters**

· **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.

#### 67-64-1 acetone

PEL Long-term value: 2400 mg/m , 1000 ppm

REL Long-term value: 590 mg/m , 250 ppm

TLV Short-term value: 1187 mg/m , 500 ppm

Long-term value: 594 mg/m , 250 ppm

BEI

#### 141-78-6 ethyl acetate

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

REL Long-term value: 1400 mg/m , 400 ppm

TLV Long-term value: 1440 mg/m , 400 ppm

#### 123-86-4 n-butyl acetate

PEL Long-term value: 710 mg/m , 150 ppm

REL Short-term value: 950 mg/m , 200 ppm

Long-term value: 710 mg/m , 150 ppm

TLV Short-term value: 712 mg/m , 150 ppm

Long-term value: 238 mg/m , 50 ppm

· **Ingredients with biological limit values:**

#### 67-64-1 acetone

BEI 50 mg/L

Medium: urine

Time: end of shift

Parameter: Acetone (nonspecific)

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**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.  
Avoid contact with the eyes and skin.  
Pregnant women should strictly avoid inhalation or skin contact.

· **Breathing equipment:** Not required.

· **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.

· **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

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### 9 Physical and chemical properties

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

##### · General Information

##### · Appearance:

##### · Form:

Fluid

##### · Color:

According to product specification

##### · Odor:

Characteristic

##### · Odor threshold:

Not determined.

##### · pH-value:

Not determined.

##### · Change in condition

##### · Melting point/Melting range:

Undetermined.

##### · Boiling point/Boiling range:

56 °C (133 °F)

##### · Flash point:

-17 °C (1 °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.

##### · Explosion limits:

##### · Lower:

1.2 Vol %

##### · Upper:

13.0 Vol %

##### · Vapor pressure at 20 °C (68 °F):

233 hPa (175 mm Hg)

##### · Density at 20 °C (68 °F):

1.462 g/cm (12.2 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.

##### · Kinematic at 20 °C (68 °F):

101 s (ISO 6 mm)

##### · Oxidising properties:

N.A.

##### · Solvent content:

##### · VOC content:

13.0 %

190.5 g/l / 1.59 lb/gal

##### · Solids content:

79.6 %

#### · Other information (HAPS)

108-88-3	toluene	0,5-1%
1330-20-7	xylene	<0.1%
100-41-4	ethylbenzene	<0.1%

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· **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
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** 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:**

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

Oral	LD50	2001 mg/kg ( )
Dermal	LD50	5001 mg/kg ( )

**67-64-1 acetone**

Oral	LD50	5800 mg/kg (rat/szczur/mouse/souris/Maus/ratón)
Dermal	LD50	20000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	76 mg/l (rat/szczur/mouse/souris/Maus/ratón)

**141-78-6 ethyl acetate**

Oral	LD50	4934 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Dermal	LD50	20001 mg/kg (rabbit/królik/Kaninchen/conejo/lapin)
Inhalative	LC50/4 h	1600 mg/l (rat/szczur/mouse/souris/Maus/ratón)
	LC0	22.6 ppm (mouse)

**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/lapin)
Inhalative	LC50/4 h	21.1 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	25.7 mg/l (rat/szczur/mouse/souris/Maus/ratón)

· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** Irritating effect.

· **Sensitization:** Sensitization possible through skin contact.

· **Additional toxicological information:**

Causes serious eye irritation.

May cause an allergic skin reaction.

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**Irritant**

· **Carcinogenic categories**

Ethylbenzene

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)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	2B - DUST
108-88-3	toluene	3
1330-20-7	xylene	3
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.

**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**27813-02-1 methacrylic acid, monoester with propane-1,2-diol**

EC50	97.3 mg/l (algae) (72 h)
	131 mg/l (daphnia) (48 h)
LC50 48h	493 mg/l (Fish)

**67-64-1 acetone**

EC50	8800 mg/l (daphnia)
LC50 (96h)	5540 mg/l (Fish)

**141-78-6 ethyl acetate**

EC50	165 mg/l (daphnia) (48 h)
LC50 (96h)	230 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)

**108-88-3 toluene**

EC50	134 mg/l (algae) (3 h)
	3.78 mg/l (daphnia) (48 h)
	58 mg/l (Fish)

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- **Persistence and degradability**  
Data refers to the substance Toluene CAS No. 108-88-3  
Readily biodegradable (according to OECD criteria)
- **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 1 (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **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

- |   |                     |
|---|---------------------|
| · <b>UN-Number</b>  |                     |
| · DOT   | NA1263              |
| · IMDG, IATA  | UN1263              |
| · <b>UN proper shipping name</b>  |                     |
| · DOT   | Paint               |
| · IMDG, IATA  | PAINT               |
| · <b>Transport hazard class(es)</b>   |                     |
| · DOT   |                     |
|  |                     |
| · Class   | 3 Flammable liquids |
| · Label   | 3                   |
| · Class   | 3 Flammable liquids |
| · Label   | 3                   |
| · <b>IMDG, IATA</b>   |                     |
|  |                     |
| · Class   | 3 Flammable liquids |
| · Label   | 3                   |

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· <b>Packing group</b>	III
· <b>DOT, IMDG, IATA</b>	
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Danger code (Kemler):</b>	-
· <b>EMS Number:</b>	F-E, S-E
· <b>Stowage Category</b>	A
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	5L
· <b>Excepted quantities (EQ)</b>	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 1263 PAINT, 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) :**

108-88-3	toluene	0,5-1%
78-93-3	butanone	0.1-<0.5%
1330-20-7	xylene	<0.1%
100-41-4	ethylbenzene	<0.1%

· **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	only for Dust	10-12, 49%
100-41-4	ethylbenzene	*	<0.1%

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

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· **Chemicals known to cause developmental toxicity:**

108-88-3	toluene	0,5-1%
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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

67-64-1	acetone	I	5-9,99%
108-88-3	toluene	II	0,5-1%
78-93-3	butanone	I	0.1-<0.5%
1330-20-7	xylene	I	<0.1%
100-41-4	ethylbenzene	D	<0.1%

· **TLV (Threshold Limit Value established by ACGIH)**

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	A4
67-64-1	acetone	A4
112945-52-5	silicon dioxide	A4
108-88-3	toluene	A4
1330-20-7	xylene	A4
100-41-4	ethylbenzene	A3

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

13463-67-7	Titanium dioxide C.I. 77891 Pigment white 6	10-12,49%
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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** 10/24/2016 / 84

· **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

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

Flam. Liq. 2: Flammable liquids . Category 2

Flam. Liq. 3: Flammable liquids . Category 3

Skin Irrit. 2: Skin corrosion/irritation . Category 2

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

Skin Sens. 1: Skin sensitisation . Category 1

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*Repr. 2: Reproductive toxicity . Category 2**STOT SE 3: Specific target organ toxicity (single exposure) . Category 3**STOT RE 2: Specific target organ toxicity (repeated exposure) . Category 2**Asp. Tox. 1: Aspiration hazard . Category 1**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**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.**

US