

1 Identification

· Product identifier

- Product number LRA94
- Trade name: **POLYESTER SEALER**
- 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.

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.

STOT RE 1 H372 Causes damage to the hearing organs through prolonged or repeated exposure.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

· 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:

styrene
toluene

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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.

H372 Causes damage to the hearing 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): Remove/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:**

| | | |
|----------|--|-----------|
| 100-42-5 | styrene | 25-29.9% |
| | Flam. Liq. 3, H226 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2A, H319 | |
| 108-88-3 | toluene | 5-9.99% |
| | 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 | |
| 67-64-1 | acetone | 1-2.49% |
| | Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336 | |
| 67-56-1 | methanol | 0.1-<0.5% |
| | Flam. Liq. 2, H225 Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 STOT SE 1, H370 | |

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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:

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.

· 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 product to reach sewage system or any water course.

Prevent seepage into sewage system, workpits and cellars.

Inform respective authorities in case of seepage into water course or sewage system.

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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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.

7 Handling and storage

· **Handling:**

· **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 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:**

100-42-5 styrene

| | |
|-----|--|
| PEL | Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs |
| REL | Short-term value: 425 mg/m , 100 ppm Long-term value: 215 mg/m , 50 ppm |
| TLV | Short-term value: 170 mg/m , 40 ppm Long-term value: 85 mg/m , 20 ppm |
| BEI | |

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108-88-3 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/m , 150 ppm Long-term value: 375 mg/m , 100 ppm |
| TLV | Long-term value: 75 mg/m , 20 ppm BEI |

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 |

67-56-1 methanol

| | |
|-----|--|
| PEL | Long-term value: 260 mg/m , 200 ppm |
| REL | Short-term value: 325 mg/m , 250 ppm Long-term value: 260 mg/m , 200 ppm Skin |
| TLV | Short-term value: 328 mg/m , 250 ppm Long-term value: 262 mg/m , 200 ppm Skin; BEI |

· Ingredients with biological limit values:**100-42-5 styrene**

| | |
|-----|--|
| BEI | 400 mg/g creatinine Medium: urine Time: end of shift Parameter: Mandelic acid plus phenylglyoxylic acid (nonspecific) |
| | 0.2 mg/L Medium: venous blood Time: end of shift Parameter: Styrene (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) |

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67-64-1 acetone

BEI 50 mg/L
Medium: urine
Time: end of shift
Parameter: Acetone (nonspecific)

67-56-1 methanol

BEI 15 mg/L
Medium: urine
Time: end of shift
Parameter: Methanol (background, nonspecific)

· *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:*

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.

· *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

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| | | |
|---|--|--|
| · <i>Color:</i> | According to product specification | |
| · <i>Odor:</i> | Characteristic | |
| · <i>Odour threshold:</i> | Not determined. | |
| · <i>pH-value:</i> | Not determined. | |
| · <i>Change in condition</i> | | |
| · <i>Melting point/Melting range:</i> | Undetermined. | |
| · <i>Boiling point/Boiling range:</i> | 56 °C (133 °F) | |
| · <i>Flash point:</i> | -17 °C (1 °F) | |
| · <i>Flammability (solid, gaseous):</i> | Not applicable. | |
| · <i>Ignition temperature:</i> | > 370 °C (> 698 °F) | |
| · <i>Decomposition temperature:</i> | Not determined. | |
| · <i>Auto igniting:</i> | Product is not selfigniting. | |
| · <i>Danger of explosion:</i> | Product is not explosive. However, formation of explosive air/vapor mixtures are possible. | |
| · <i>Explosion limits:</i> | | |
| · <i>Lower:</i> | 1.2 Vol % | |
| · <i>Upper:</i> | 13.0 Vol % | |
| · <i>Vapor pressure at 20 °C (68 °F):</i> | 233 hPa (175 mm Hg) | |
| · <i>Density at 20 °C (68 °F):</i> | 1.032 g/cm (8.612 lbs/gal) | |
| · <i>Relative density</i> | Not determined. | |
| · <i>Vapour density</i> | Not determined. | |
| · <i>Evaporation rate</i> | Not determined. | |
| · <i>Solubility in / Miscibility with</i> | | |
| · <i>Water:</i> | Not miscible or difficult to mix. | |
| · <i>Partition coefficient (n-octanol/water):</i> | Not determined. | |
| · <i>Viscosity:</i> | | |
| · <i>Dynamic:</i> | Not determined. | |
| · <i>Kinematic at 20 °C (68 °F):</i> | 101 s (ISO 6 mm) | |
| · <i>Oxidising properties:</i> | N.A. | |
| · <i>Solvent content:</i> | | |
| · <i>VOC content:</i> | 37.2 % 384.1 g/l / 3.21 lb/gl | |
| · <i>Solids content:</i> | 88.1 % | |
| · Other information (HAPS) | | |
| 100-42-5 | styrene | 25-29.9% |
| 108-88-3 | toluene | 5-9,99% |
| 67-56-1 | methanol | 0.1-<0.5% |
| 98-82-8 | cumene | <0.01% |
| 1330-20-7 | xylene | <0.01% |
| 111-90-0 | 2-(2-ethoxyethoxy)ethanol | <0.01% |
| · Other information | | No further relevant information available. |

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10 Stability and reactivity

- **Reactivity** typical of the product as indicated in the data sheet
- **Chemical stability**
Polymerise spontaneously, if not inhibited, with rapid increase of temperature. In closed containers, has also rapid increase of pressure. Polymerise violently with reaction that can be explosive by the action of light, heat, strong acids or peroxides. Presence of inhibitors reduces - but does not eliminate - the tendency to polymerization.
- **Thermal decomposition / conditions to be avoided:**
Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C
- **Possibility of hazardous reactions**
Exothermic polymerization.
Reacts with acids, alkalis and oxidizing agents.
Vapours may form explosive mixtures with air
- **Conditions to avoid**
Avoid exposure to direct sunlight or storage or exposure to temperatures higher than 25 °C
- **Incompatible materials:** Acids, alkalis and oxidizing agents
- **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:**

100-42-5 styrene

| | | |
|------------|----------|---|
| Oral | LD50 | 5000 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 2001 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Inhalative | LC50/4 h | 11.8 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) |

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) |

67-56-1 methanol

| | | |
|------------|----------|--|
| Oral | LD50 | 1187 mg/kg (rat/szczur/mouse/souris/Maus/ratón) |
| Dermal | LD50 | 17000 mg/kg (rabbit/królik/Kaninchen/conejo/lapin) |
| Inhalative | LC50/4 h | 128.2 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.

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May cause respiratory irritation.

Causes damage to the hearing organs through prolonged or repeated exposure.

Harmful

Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

| | | |
|----------|---------|----|
| 100-42-5 | styrene | 2B |
|----------|---------|----|

· **NTP (National Toxicology Program)**

| | | |
|----------|---------|----------|
| 100-42-5 | styrene | 25-29.9% |
|----------|---------|----------|

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

None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

100-42-5 styrene

| | |
|------------|---------------------------|
| EC50 | 4.9 mg/l (algae) (72 h) |
| | 4.7 mg/l (daphnia) (48 h) |
| LC50 (96h) | 4.02 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) |

67-64-1 acetone

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

67-56-1 methanol

| | |
|------------|-----------------------------|
| EC50 | 8000 mg/l (algae) (72 h) |
| | 24500 mg/l (daphnia) (48 h) |
| LC50 (96h) | 15400 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:** Not known to be hazardous to water.

· **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.*

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 |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | |
| · Danger code (Kemler): | Warning: Flammable liquids |
| · 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 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) :**

| | | |
|-----------|--------------------------------|-----------|
| 100-42-5 | styrene | 25-29.9% |
| 108-88-3 | toluene | 5-9,99% |
| 67-56-1 | methanol | 0.1-<0.5% |
| 95-63-6 | 1,2,4-trimethylbenzene | <0.01% |
| 1338-02-9 | Naphthenic acids, copper salts | <0.01% |
| 98-82-8 | cumene | <0.01% |
| 1330-20-7 | xylene | <0.01% |

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

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

| | | |
|----------|---------|---------|
| 108-88-3 | toluene | 5-9,99% |
|----------|---------|---------|

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

None of the ingredients is listed.

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

| | | |
|----------|----------|-----------|
| 108-88-3 | toluene | 5-9,99% |
| 67-56-1 | methanol | 0.1-<0.5% |

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

| | | | |
|-----------|---------|--------|---------|
| 108-88-3 | toluene | II | 5-9,99% |
| 67-64-1 | acetone | I | 1-2,49% |
| 98-82-8 | cumene | D, CBD | <0.01% |
| 1330-20-7 | xylene | I | <0.01% |

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

| | | |
|----------|---------|----|
| 100-42-5 | styrene | A4 |
| 108-88-3 | toluene | A4 |
| 67-64-1 | acetone | 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** 09/18/2015 / 35

- **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. 3: Acute toxicity, 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 1: Specific target organ toxicity - Single exposure, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

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.**