

Safety Data Sheet

P69 POLIERRE VIRACOLOR



Safety Data Sheet dated 20/4/2021, version 5

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1. Product identifier
Mixture identification:
Trade code and name: P69 POLIERRE VIRACOLOR
- 1.2. Relevant identified uses of the substance or mixture and uses advised against
Polyester filler for auto-body and nautical applications.
Only for professional use.
- 1.3. Details of the supplier of the safety data sheet
Company:
Industria Chimica Reggiana I.C.R. Spa
(subject to management and coordination by sole shareholder company PPG Industries Inc.)
Via Gasparini, 7 42124 REGGIO EMILIA Italia
Tel. +39 0522/517803 Fax +39 0522/514384
Competent person responsible for the safety data sheet:
sdsre@icrsprint.it
- 1.4. Emergency telephone number
Tel. +39 0522-517803 or NHS 111 - dial 111

SECTION 2: Hazards identification

- 2.1. Classification of the substance or mixture
EC regulation criteria 1272/2008 (CLP)
 - ⚠ Warning, Flam. Liq. 3, Flammable liquid and vapour.
 - ⚠ Warning, Skin Irrit. 2, Causes skin irritation.
 - ⚠ Warning, Eye Irrit. 2, Causes serious eye irritation.
 - ⚠ Warning, Skin Sens. 1A, May cause an allergic skin reaction.
 - ⚠ Warning, Repr. 2, Suspected of damaging the unborn child.
 - ⚠ Danger, STOT RE 1, Causes damage to ear through prolonged or repeated exposure via inhalation..

Adverse physicochemical, human health and environmental effects:
No other hazards

- 2.2. Label elements
Hazard pictograms:



Danger

Hazard statements:

- H226 Flammable liquid and vapour.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to ear through prolonged or repeated exposure via inhalation..

Precautionary statements:

- P202 Do not handle until all safety precautions have been read and understood.
- P260.F Do not breathe vapours.
- P280 Wear protective gloves and eye protection.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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Special Provisions:

None

Contains

maleic anhydride

styrene

Cobalt bis(2-ethylhexanoate)

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

| Qty | Name | Ident. Number | Classification |
|----------------------|------------------------------|---|--|
| >= 15% - < 20% | styrene | Index number: 601-026-00-0 CAS: 100-42-5 EC: 202-851-5 REACH No.: 01-2119457861-32 | ⚠ 2.6/3 Flam. Liq. 3 H226 ⚠ 3.7/2 Repr. 2 H361d ⚠ 3.1/4/Inhal Acute Tox. 4 H332 ⚠ 3.9/1 STOT RE 1 H372 ⚠ 3.10/1 Asp. Tox. 1 H304 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.2/2 Skin Irrit. 2 H315 ⚠ 3.8/3 STOT SE 3 H335 4.1/C3 Aquatic Chronic 3 H412 |
| >= 0.01% - < 0.1% | Cobalt bis(2-ethylhexanoate) | CAS: 136-52-7 EC: 205-250-6 REACH No.: 01-2119524678-29 | ⚠ 3.7/1B Repr. 1B H360 ⚠ 3.3/2 Eye Irrit. 2 H319 ⚠ 3.4.2/1A Skin Sens. 1A H317 ⚠ 4.1/A1 Aquatic Acute 1 H400 4.1/C3 Aquatic Chronic 3 H412 |
| >= 0.01% - < 0.1% | maleic anhydride | Index number: 607-096-00-9 CAS: 108-31-6 EC: 203-571-6 REACH No.: 01-2119472428-31 | ⚠ 3.1/4/Oral Acute Tox. 4 H302 ⚠ 3.9/1 STOT RE 1 H372 ⚠ 3.2/1B Skin Corr. 1B H314 ⚠ 3.3/1 Eye Dam. 1 H318 ⚠ 3.4.1/1 Resp. Sens. 1 H334 ⚠ 3.4.2/1A Skin Sens. 1A H317 EUH071 |

This product is not classified H304 due to its high viscosity.

All component substances of this product have been registered under REACH or are exempt from REACH registration.

Substances in Section 3 not showing REACH registration codes are exempt from registration.

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SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap. If irritation persists: Get medical advice/attention.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for at least 15 minutes, then consult a medic immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

Ventilate the premises. The patient is to be removed immediately from the contaminated premises to rest in a well ventilated area. OBTAIN MEDICAL ATTENTION.

4.2. Most important symptoms and effects, both acute and delayed

See section 11 for known symptoms and effects.

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Do not use water jets. Water may not be effective fire fighting measure, however it can be used to cool closed

containers close to flames as to avoid bursting and exploding.

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke. Carbon oxides.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

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Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Exercise the greatest care when handling or opening the container.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

See also section 8 for recommended protective equipment.

Advice on general occupational hygiene:

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

See Point 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

styrene - CAS: 100-42-5

EU - TWA(8h): 85 mg/m³, 20 ppm - STEL(): 170 mg/m³, 40 ppm - Notes: Pelle

ACGIH - TWA(8h): 10 ppm - STEL: 20 ppm - Notes: OTO, A3, BEI - CNS and hearing impair, URT irr, peripheral neuropathy, visual disorders

Italy - TWA(8h): 20 ppm - STEL: 200 ppm

maleic anhydride - CAS: 108-31-6

ACGIH - TWA(8h): 0.01 mg/m³ - Notes: (IFV), DSEN, RSEN, A4 - Resp sens

DNEL Exposure Limit Values

styrene - CAS: 100-42-5

Worker Professional: 406 mg/kg - Consumer: 343 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 2.1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 85 mg/m³ - Consumer: 10.2 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 289 mg/m³ - Consumer: 174.25 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 306 mg/m³ - Consumer: 182.75 mg/m³ - Exposure: Human Inhalation - Frequency: Short Term, local effects

PNEC Exposure Limit Values

styrene - CAS: 100-42-5

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Target: Fresh Water - Value: 0.028 mg/l
 Target: Marine water - Value: 0.028 mg/l
 Target: Freshwater sediments - Value: 0.614 mg/kg
 Target: Marine water sediments - Value: 0.0614 mg/kg
 Target: Soil (agricultural) - Value: 0.2 mg/kg
 Target: 14 - Value: 0.04 mg/l
 Target: Purification plant - Value: 5 mg/l

Biological Exposure Index

styrene - CAS: 100-42-5

Value: 400 mg/g creatinine - medium: Urine - Biological Indicator: Mandelic acid in urine and fenilglossilico - Sampling Period: End of turn

Value: 40 mg/l creatinine - medium: Urine - Biological Indicator: Styrene in urine - Sampling Period: End of turn

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles and/or visor conforming to BS 2092 GRADE 1).

Protection for skin:

Wear safety clothing that ensure full skin protection in accordance to EN 14605 Type 4 in case of spills or spray (e.g. Tyrek). Please note: safety clothing must be changed immediately if it comes in contact with product.

Protection for hands:

Use protective gloves that provides comprehensive protection, EN374 Class 3 (F). Permeation time > 60 minutes; 0.4 mm thickness.

Respiratory protection:

Use adequate protective respiratory devices, using Filter "A" (Brown colour) for organic gas and vapors with boiling points over 65°C.

Thermal Hazards:

None

Environmental exposure controls:

Emissions from ventilation systems or from work processes must be check as to ensure compliance to environmental protection legislation. In some cases the addition of vapour scrubbers, filters or other system modification may be necessary in order to reduce emissions to acceptable levels.

Appropriate engineering controls:

None

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| Properties | Value | Method: | Notes |
|------------------------|------------------------------|---------|-------|
| Appearance and colour: | Light blue thixotropic paste | -- | -- |
| Odour: | Typical of Styrene | -- | -- |
| Odour threshold: | 0.15 - 0.25 ppm ref. Styrene | -- | -- |
| pH: | N.A. | | |

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| | | | |
|---|-------------------------------|----|----|
| Melting point / freezing point: | N.D. | -- | -- |
| Initial boiling point and boiling range: | 145°C | -- | -- |
| Flash point: | 32 °C | -- | -- |
| Evaporation rate: | N.D. | -- | -- |
| Solid/gas flammability: | N.A. | -- | -- |
| Upper/lower flammability or explosive limits: | 1,1% - 6,1 % - Vol. | -- | -- |
| Vapour pressure: | 6,7 hPa (20°C) | -- | -- |
| Vapour density: | 3.6 (air=1) | -- | -- |
| Relative density: | 1.700 g/cm ³ | -- | -- |
| Solubility in water: | Insoluble | -- | -- |
| Solubility in oil: | N.D. | -- | -- |
| Partition coefficient (n-octanol/water): | | -- | -- |
| Auto-ignition temperature: | 490°C | -- | -- |
| Decomposition temperature: | N.D. | -- | -- |
| Viscosity: | > 20.5 mm ² (40°C) | -- | -- |
| Explosive properties: | N.D. | -- | -- |
| Oxidizing properties: | N.D. | -- | -- |

9.2. Other information

| Properties | Value | Method: | Notes |
|--------------------------------------|-------|---------|-------|
| Miscibility: | N.A. | -- | -- |
| Fat Solubility: | N.A. | -- | -- |
| Conductivity: | N.A. | -- | -- |
| Substance Groups relevant properties | N.A. | -- | -- |

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SECTION 10: Stability and reactivity

- 10.1. Reactivity
 - Stable under normal conditions
- 10.2. Chemical stability
 - Stable under recommended use and storage conditions (see point 7).
- 10.3. Possibility of hazardous reactions
 - It may catch fire on contact with oxidising mineral acids, and powerful oxidising agents.
- 10.4. Conditions to avoid
 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 - Avoid accumulating electrostatic charge.
 - Stable under normal conditions.
- 10.5. Incompatible materials
 - Avoid contact with combustible materials. The product could catch fire.
- 10.6. Hazardous decomposition products
 - Carbon oxides. Aromatic hydrocarbons.

SECTION 11: Toxicological information

- 11.1. Information on toxicological effects

Toxicological information of the product:

N.A.

Toxicological information of the main substances found in the product:

styrene - CAS: 100-42-5

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 5000 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 11.8 mg/l - Duration: 4h

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg - Notes: OECD 402

i) STOT-repeated exposure:

Test: LOAEL(C) - Route: Oral - Species: Rat = 2000 mg/kg - Notes: bw/day

Test: NOAEL(C) - Route: Oral - Species: Rat = 1000 mg/kg - Notes: bw/day

Test: LOAEL(C) - Route: Inhalation - Species: Rat = 0.21 mg/l

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 3129 mg/kg

Test: LD50 - Route: Skin - Species: Rat > 2000 mg/kg

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin Positive

maleic anhydride - CAS: 108-31-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1090 mg/kg bw

Test: LD50 - Route: Skin - Species: Rabbit = 2620 mg/kg

Test: LC50 - Route: Inhalation - Species: Rat = 4.35 mg/l - Duration: 1h

styrene - CAS: 100-42-5

Acute inhalation toxicity at 1000 ppm affects the central nervous system with headaches, dizziness and coordination difficulties; irritation of the mucous membranes of the eyes and respiratory tract occurs at 500 ppm. Chronic exposure gives system depression central and peripheral nervous system with memory loss, headaches and somnolence starting from 20 ppm; digestive disorders with nausea e loss of appetite; respiratory tract irritation with chronic bronchitis; dermatosis. Repeated exposure, to low doses of the substance by inhalation, it causes irreversible changes in hearing function and can cause changes in color vision. Repeated skin exposures cause irritation. The substance degrades the skin, which can cause dryness and cracking.

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If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.:

- a) acute toxicity;
- b) skin corrosion/irritation;
- c) serious eye damage/irritation;
- d) respiratory or skin sensitisation;
- e) germ cell mutagenicity;
- f) carcinogenicity;
- g) reproductive toxicity;
- h) STOT-single exposure;
- i) STOT-repeated exposure;
- j) aspiration hazard.

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

styrene - CAS: 100-42-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 4.02 mg/l - Duration h: 96

Endpoint: EC50 - Species: Algae = 4.9 mg/l - Duration h: 72

Endpoint: EC50 - Species: Daphnia = 4.7 mg/kg - Duration h: 48

Endpoint: EC10 - Species: Algae = 0.28 mg/l - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 1.01 mg/l - Duration h: 504

Cobalt bis(2-ethylhexanoate) - CAS: 136-52-7

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae = 654 mg/l - Duration h: 72

maleic anhydride - CAS: 108-31-6

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 75 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia = 42.81 mg/l - Duration h: 48

Endpoint: EC50 - Species: Algae = 74.35 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 10 mg/l - Duration h: 504

12.2. Persistence and degradability

Non-readily biodegradable

12.3. Bioaccumulative potential

Not bioaccumulative

12.4. Mobility in soil

Do not mix with waste water, rain or surface water. Floats on water, evaporates from liquid and solid surfaces but a significant amount may penetrate and pollute water table.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The empty containers must be considered special waste materials to take to dump of type 2B. If previously cleansed, they can be admitted in first class dumps.

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. DO NOT

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discharge into sewers, watercourses, ponds, canals or ditches. Empty product containers must be completely drained and stored safely until appropriately processes or disposed. Empty containers must be recycled, recovered or disposed of by a qualified and authorized company operating in compliance with current recycling, recovery and disposal regulations. It is advisable to provide the desposal company with all safety information of the material contained in the empty packaging. DO NOT pressurize, DO NOT cut, DO NOT weld, DO NOT puncture, DO NOT crush, DO NOT expose empty containers to heat, flames, sparks, electrostatic discharge or other sources of ignition.

SECTION 14: Transport information

ADR/RID-Class

If transported without hardener:

Not liable for receptacles equal or less than 450 litres, transported in accordance with 2.2.3.1.5 ADR.

If transported as Polyester Resin Kit (with hardener):

Limited quantities, not liable to ADR norms for internal packages of up to 5L and a maximum 30 kg per pack.

| | |
|----------------------|---------------------|
| UN number: | 3269 |
| Packing Group: | III |
| Shipping Name: | Polyester Resin Kit |
| Transport category : | 3 |
| Classification code: | F1 |
| Label: | 3 |

IMDG/IMO

If transported without hardener:

| | |
|----------------------|---------|
| UN number: | 1263 |
| Packing Group: | III |
| Shipping Name: | Paint |
| Transport category : | 3 |
| Class: | 3 |
| IMDG-label: | 3 |
| IMDG-EMS: | F-E,S-E |

If transported as Polyester Resin Kit (with hardener):

| | |
|---------------------|---------------------|
| UN number: | 3269 |
| Packing Group: | III |
| Shipping Name:: | Polyester Resin Kit |
| Transport category: | 3 |
| Class: | 3 |
| IMDG-label: | 3 |
| IMDG-EMS: | F-E,S-D |

Marine pollutant MARPOL (Annex II/III): No

For the correct trasposrt classification according to European decrees pertaining to international transport of dangerous goods by road (ADR) and by sea (IMDG), please refer to the goods' transport documentation.

SECTION 15: Regulatory information

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

P69 / 5 / EN

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ICR spa

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Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) 2015/830
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Volatile Organic compounds - VOCs = 153.90 g/Kg = 261.63 g/l

Volatile CMR substances = 0.00 %

Halogenated VOCs which are assigned the risk phrase R40 = 0.00 %

Organic Carbon - C = 0.15

Dry weight (% wt): 84.61

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H226 Flammable liquid and vapour.

H361d Suspected of damaging the unborn child.

H332 Harmful if inhaled.

H372 Causes damage to ear through prolonged or repeated exposure via inhalation..

H304 May be fatal if swallowed and enters airways.

H319 Causes serious eye irritation.

H315 Causes skin irritation.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

H360 May damage fertility or the unborn child.

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H317 May cause an allergic skin reaction.

H400 Very toxic to aquatic life.

H302 Harmful if swallowed.

H372 Causes damage to organs (Respiratory system) through prolonged or repeated exposure if inhaled.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

EUH071 Corrosive to the respiratory tract.

| Hazard class and hazard category | Code | Description |
|----------------------------------|-------------|--|
| Flam. Liq. 3 | 2.6/3 | Flammable liquid, Category 3 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Asp. Tox. 1 | 3.10/1 | Aspiration hazard, Category 1 |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| Skin Irrit. 2 | 3.2/2 | Skin irritation, Category 2 |
| Eye Dam. 1 | 3.3/1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | 3.3/2 | Eye irritation, Category 2 |
| Resp. Sens. 1 | 3.4.1/1 | Respiratory Sensitisation, Category 1 |
| Skin Sens. 1A | 3.4.2/1A | Skin Sensitisation, Category 1A |
| Repr. 1B | 3.7/1B | Reproductive toxicity, Category 1B |
| Repr. 2 | 3.7/2 | Reproductive toxicity, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| STOT RE 1 | 3.9/1 | Specific target organ toxicity - repeated exposure, Category 1 |
| Aquatic Acute 1 | 4.1/A1 | Acute aquatic hazard, category 1 |
| Aquatic Chronic 3 | 4.1/C3 | Chronic (long term) aquatic hazard, category 3 |

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 2: Hazards identification

SECTION 3: Composition/information on ingredients

SECTION 7: Handling and storage

SECTION 8: Exposure controls/personal protection

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SECTION 9: Physical and chemical properties
SECTION 10: Stability and reactivity
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 15: Regulatory information
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

| Classification according to Regulation (EC) Nr. 1272/2008 | Classification procedure |
|---|--------------------------|
| Flam. Liq. 3, H226 | On basis of test data |
| Skin Irrit. 2, H315 | Calculation method |
| Eye Irrit. 2, H319 | Calculation method |
| Skin Sens. 1A, H317 | Calculation method |
| Repr. 2, H361d | Calculation method |
| STOT RE 1, H372 | Calculation method |

This document was prepared by a competent person who has received appropriate training.
Exposure scenario available upon request.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,
Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand
Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE: Acute Toxicity Estimate
ATEmix: Acute toxicity Estimate (Mixtures)
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IMDG: International Maritime Code for Dangerous Goods.
INCI: International Nomenclature of Cosmetic Ingredients.
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.

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| | |
|-------|---|
| LD50: | Lethal dose, for 50 percent of test population. |
| N.A.: | Not available |
| N.D.: | Not determined. |
| PNEC: | Predicted No Effect Concentration. |
| RID: | Regulation Concerning the International Transport of Dangerous Goods by Rail. |
| STEL: | Short Term Exposure limit. |
| STOT: | Specific Target Organ Toxicity. |
| TLV: | Threshold Limiting Value. |
| TWA: | Time-weighted average |