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

### 1.1 Product identifier

Trade name : Sikaflex®-290 DC PRO

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Product use : Sealant/adhesive

### 1.3 Details of the supplier of the safety data sheet

| | | |
|---|---|---|
| Company name of supplier | : | Sika Italia S.p.A.<br>Via Luigi Einaudi 6<br>20068 Peschiera Borromeo |
| Telephone | : | +39 02 54778 111 |
| Telefax | : | +39 02 54778 119 |
| E-mail address of person responsible for the SDS | : | EHS@it.sika.com |

### 1.4 Emergency telephone number

CAV Napoli – Azienda Ospedaliera A. Cardarelli - Tel. 0817472870
CAV Firenze - Az.Osp.Careggi U.O. Tossicologia Medica - Tel. 0557947819
CAV Pavia - Centro Naz.le d'informazione Tossicologica - Tel. 038224444
CAV Milano - Ospedale Niguarda Ca' Grande - Tel. 0266101029
CAV Bergamo - Azienda Ospedaliera Papa Giovanni XXIII - Tel. 800883300
CAV Roma - Policlinico Umberto I - Tel. 0649978000
CAV Roma - Policlinico Agostino Gemelli - Tel. 063054343
CAV Foggia - Az. Osp. Universitaria Riuniti - Tel. 0881732326
CAV Roma - Ospedale Pediatrico Bambino Gesù - Tel. 0668593726
CAV Verona - Az. Osp. Universitaria di Borgo Trento - Tel. 800011858

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification (REGULATION (EC) No 1272/2008)**

| | |
|---|---|
| Respiratory sensitisation, Category 1 | H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitisation, Category 1 | H317: May cause an allergic skin reaction. |
| Reproductive toxicity, Category 1B | H360D: May damage the unborn child. |
| Long-term (chronic) aquatic hazard, Category 3 | H412: Harmful to aquatic life with long lasting effects. |

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements :

| | |
|---|---|
| H317 | May cause an allergic skin reaction. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H360D | May damage the unborn child. |
| H412 | Harmful to aquatic life with long lasting effects. |

Precautionary statements :

**Prevention:**

| | |
|---|---|
| P201 | Obtain special instructions before use. |
| P261 | Avoid breathing mist or vapours. |
| P280 | Wear protective gloves/ protective clothing/ eye protection/ face protection. |

**Response:**

| | |
|---|---|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P308 + P313 | IF exposed or concerned: Get medical advice/ attention. |
| P342 + P311 | If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. |

**Hazardous components which must be listed on the label:**

N,N-dibenzyliden polyoxypropylene diamine (polymer)
aromatic polyisocyanate
2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate
4,4'-methylenediphenyl diisocyanate
Pentamethyl piperidylsebacate

**Additional Labelling**

EUH204 Contains isocyanates. May produce an allergic reaction.

"As from 24 August 2023 adequate training is required before industrial or professional use."

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**Components**

| Chemical name | CAS-No.<br>EC-No.<br>Registration number | Classification | Concentration (% w/w) |
|---|---|---|---|
| N,N-dibenzyliden polyoxypropylene diamine (polymer) | 136855-71-5<br>Not Assigned | Skin Irrit. 2; H315<br>Repr. 1B; H360Df | >= 1 - < 2,5 |
| reaction mass of ethylbenzene and xylene | Not Assigned<br>905-588-0<br>01-2119488216-32-XXXX | Flam. Liq. 3; H226<br>Acute Tox. 4; H332<br>Acute Tox. 4; H312<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>STOT SE 3; H335 (Respiratory system)<br>STOT RE 2; H373 (hearing organs)<br>Asp. Tox. 1; H304<br>Aquatic Chronic 3; H412 | >= 1 - < 2,5 |
| aromatic polyisocyanate | 53317-61-6<br>Not Assigned | Eye Irrit. 2; H319<br>Skin Sens. 1; H317 | >= 0,5 - < 1 |
| 2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate | 15625-89-5<br>239-701-3<br>01-2119489896-11-XXXX | Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Skin Sens. 1; H317<br>Carc. 2; H351<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | >= 0,25 - < 0,5 |

| | | | |
|---|---|---|---|
| 4,4'-methylenediphenyl diisocyanate | 101-68-8<br>202-966-0<br>01-2119457014-47-XXXX | Acute Tox. 4; H332<br>Skin Irrit. 2; H315<br>Eye Irrit. 2; H319<br>Resp. Sens. 1; H334<br>Skin Sens. 1; H317<br>Carc. 2; H351<br>STOT SE 3; H335 (Respiratory system)<br>STOT RE 2; H373<br>---<br>specific concentration limit<br>Eye Irrit. 2; H319<br>>= 5 %<br>---<br>specific concentration limit<br>STOT SE 3; H335<br>>= 5 %<br>---<br>specific concentration limit<br>Skin Irrit. 2; H315<br>>= 5 %<br>---<br>specific concentration limit<br>Resp. Sens. 1; H334<br>>= 0,1 %<br>---<br>Acute toxicity estimate<br><br>Acute inhalation toxicity (dust/mist): 1,5 mg/l | >= 0,1 - < 0,5 |
| Pentamethyl piperidylsebacate<br>Contains:<br>bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate<br>methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate | 1065336-91-5<br>915-687-0<br>01-2119491304-40-XXXX | Skin Sens. 1A; H317<br>Repr. 2; H361f<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>---<br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1 | >= 0,1 - < 0,25 |

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.

If inhaled : Move to fresh air.
Consult a physician after significant exposure.

In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
If symptoms persist, call a physician.

In case of eye contact : Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Do not induce vomiting without medical advice.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.

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

Symptoms : Asthmatic appearance
Allergic reactions
See Section 11 for more detailed information on health effects and symptoms.

Risks : May cause an allergic skin reaction.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May damage the unborn child.

sensitising effects
toxic effects for reproduction

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

Treatment : Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for

extinction.

### 5.2 Special hazards arising from the substance or mixture

| | | |
|---|---|---|
| Hazardous combustion products | : | No hazardous combustion products are known |

### 5.3 Advice for firefighters

| | | |
|---|---|---|
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus. |
| Further information | : | Standard procedure for chemical fires. |

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

| | | |
|---|---|---|
| Personal precautions | : | Use personal protective equipment.<br>Deny access to unprotected persons. |

### 6.2 Environmental precautions

| | | |
|---|---|---|
| Environmental precautions | : | Do not flush into surface water or sanitary sewer system.<br>If the product contaminates rivers and lakes or drains inform respective authorities. |

### 6.3 Methods and material for containment and cleaning up

| | | |
|---|---|---|
| Methods for cleaning up | : | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).<br>Keep in suitable, closed containers for disposal. |

### 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

| | | |
|---|---|---|
| Advice on safe handling | : | Avoid exceeding the given occupational exposure limits (see section 8).<br>Do not get in eyes, on skin, or on clothing.<br>For personal protection see section 8.<br>Persons with a history of skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.<br>Smoking, eating and drinking should be prohibited in the application area.<br>Pregnant women or women of child-bearing age should not be |

exposed to this product.
Follow standard hygiene measures when handling chemical products

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Store in accordance with local regulations.

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Cleaning with aprotic polar solvents must be avoided.
Consult most current local Product Data Sheet prior to any use.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

**Occupational Exposure Limits**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters * | Basis * |
|---|---|---|---|---|
| reaction mass of ethylbenzene and xylene | Not Assigned | TWA | 50 ppm<br>221 mg/m3 | IT OEL |
| | Further information: The notation 'Skin' attributes to the exposure limit values and indicates the possibility of absorption through the skin. | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | IT OEL |
| | | TWA | 50 ppm<br>221 mg/m3 | 2000/39/EC |
| | Further information: Identifies the possibility of significant uptake through the skin, Indicative | | | |
| | | STEL | 100 ppm<br>442 mg/m3 | 2000/39/EC |
| | | TWA | 20 ppm | ACGIH |
| 4,4'-methylenediphenyl diisocyanate | 101-68-8 | TWA | 0,005 ppm | ACGIH |

*The above mentioned values are in accordance with the legislation in effect at the date of the release of this safety data sheet.

**Biological occupational exposure limits**

| Substance name | CAS-No. | Control parameters | Sampling time | Basis |
|---|---|---|---|---|
| xylene | 1330-20-7 | Methylhippuric | End of shift (As | ACGIH BEI |

| | | | | |
|---|---|---|---|---|
| | | acids: 1.5 g/g creatinine (Urine) | soon as possible after exposure ceases) | |

### 8.2 Exposure controls

**Engineering measures**

Maintain air concentrations below occupational exposure standards.
Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

Eye/face protection : Safety glasses with side-shields conforming to EN166
Eye wash bottle with pure water

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manufacturer specifications.
Suitable for short time use or protection against splashes:
Butyl rubber/nitrile rubber gloves (> 0,1 mm)
Contaminated gloves should be removed.
Suitable for permanent exposure:
Viton gloves (0.4 mm),
breakthrough time >30 min.

Skin and body protection : Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.
Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Use a properly fitted NIOSH approved air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
organic vapor filter (Type A)
A1: < 1000 ppm; A2: < 5000 ppm; A3: < 10000 ppm
Ensure adequate ventilation. This can be achieved by local exhaust extraction or by general ventilation. (EN 689 - Methods for determining inhalation exposure). This applies in particular to the mixing / stirring area. In case this is not sufficent to keep the concentrations under the occupational exposure limits then respiration protection measures must be used.

**Environmental exposure controls**

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | | |
|---|---|---|
| Physical state | : | liquid |
| Appearance | : | paste |
| Colour | : | black |
| Odour | : | slight |
| Melting point/ range / Freezing point | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flammability (solid, gas) | : | No data available |

**Upper/lower flammability or explosive limits**

| | | |
|---|---|---|
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Flash point | : | > 101 °C<br>Method: closed cup |
| Auto-ignition temperature | : | No data available |
| Decomposition temperature | : | No data available |
| pH | : | Not applicable<br>substance/mixture is non-soluble (in water) |

**Viscosity**

| | | |
|---|---|---|
| Viscosity, kinematic | : | > 20,5 mm2/s (40 °C) |

**Solubility(ies)**

| | | |
|---|---|---|
| Water solubility | : | insoluble |
| Partition coefficient: n-octanol/water | : | No data available |
| Vapour pressure | : | 0,01 hPa |
| Density | : | ca. 1,3 g/cm3 (20 °C) |
| Relative vapour density | : | No data available |
| Particle characteristics | : | No data available |

### 9.2 Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

### 10.4 Conditions to avoid

Conditions to avoid : Avoid moisture.

### 10.5 Incompatible materials

Materials to avoid : No data available

### 10.6 Hazardous decomposition products

: No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

**Acute toxicity**

Not classified due to lack of data.

**Components:**

**reaction mass of ethylbenzene and xylene:**

Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

**aromatic polyisocyanate:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

**2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:**

Acute oral toxicity : LD50 Oral (Rat): 3.680 - 5.000 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

**4,4'-methylenediphenyl diisocyanate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat): > 5.000 mg/kg<br>Method: OECD Test Guideline 401 |
| Acute inhalation toxicity | : | LC50: 1,5 mg/l<br>Exposure time: 4 h<br>Test atmosphere: dust/mist<br>Method: Expert judgement<br><br>Acute toxicity estimate: 1,5 mg/l<br>Test atmosphere: dust/mist<br>Method: Calculation method |

**Pentamethyl piperidylsebacate:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 Oral (Rat): 3.230 mg/kg |

**Skin corrosion/irritation**

Not classified due to lack of data.

**Serious eye damage/eye irritation**

Not classified due to lack of data.

**Respiratory or skin sensitisation**

**Skin sensitisation**

May cause an allergic skin reaction.

**Respiratory sensitisation**

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

**Germ cell mutagenicity**

Not classified due to lack of data.

**Carcinogenicity**

Not classified due to lack of data.

**Reproductive toxicity**

May damage the unborn child.

**STOT - single exposure**

Not classified due to lack of data.

**STOT - repeated exposure**

Not classified due to lack of data.

**Aspiration toxicity**

Not classified due to lack of data.

**11.2 Information on other hazards**

**Endocrine disrupting properties**

**Product:**

| | | |
|---|---|---|
| Assessment | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

## SECTION 12: Ecological information

### 12.1 Toxicity

**Components:**

**reaction mass of ethylbenzene and xylene:**

| | | |
|---|---|---|
| Toxicity to fish (Chronic toxicity) | : | NOEC: > 1,3 mg/l<br>Exposure time: 56 d<br>Species: Oncorhynchus mykiss (rainbow trout) |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC: 1,17 mg/l<br>Exposure time: 7 d<br>Species: Daphnia (water flea) |

**2-ethyl-2-[[(1-oxoallyl)oxy]methyl]-1,3-propanediyl diacrylate:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Danio rerio (zebra fish)): 0,87 mg/l<br>Exposure time: 96 h<br>Method: OECD Test Guideline 203 |
| M-Factor (Acute aquatic toxicity) | : | 1 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

**Pentamethyl piperidylsebacate:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Fish): 0,97 mg/l<br>Exposure time: 96 h |
| M-Factor (Acute aquatic toxicity) | : | 1 |
| M-Factor (Chronic aquatic toxicity) | : | 1 |

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

| | | |
|---|---|---|
| Assessment | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.. |

### 12.6 Endocrine disrupting properties

**Product:**

| | | |
|---|---|---|
| Assessment | : | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |

### 12.7 Other adverse effects

**Product:**

| | | |
|---|---|---|
| Additional ecological information | : | An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br>Harmful to aquatic life with long lasting effects. |

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

| | | |
|---|---|---|
| Product | : | The generation of waste should be avoided or minimized wherever possible.<br>Empty containers or liners may retain some product residues.<br>This material and its container must be disposed of in a safe way.<br>Dispose of surplus and non-recyclable products via a licensed waste disposal contractor.<br>Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.<br>Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. |

## SECTION 14: Transport information

### 14.1 UN number or ID number

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |

| | | |
|---|---|---|
| **IATA** | : | Not regulated as a dangerous good |

**14.2 UN proper shipping name**

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA** | : | Not regulated as a dangerous good |

**14.3 Transport hazard class(es)**

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA** | : | Not regulated as a dangerous good |

**14.4 Packing group**

| | | |
|---|---|---|
| **ADR** | : | Not regulated as a dangerous good |
| **IMDG** | : | Not regulated as a dangerous good |
| **IATA (Cargo)** | : | Not regulated as a dangerous good |
| **IATA (Passenger)** | : | Not regulated as a dangerous good |

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

| | | |
|---|---|---|
| International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors | : | Not applicable |
| REACH Information: | | All substances contained in our Products are<br>- registered by our upstream suppliers, and/or<br>- registered by us, and/or<br>- excluded from the regulation, and/or<br>- exempted from the registration. |
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Number on list 3<br><br>Number on list 52: 1,2-Benzenedicarboxylic acid, di-C9-11- |

branched alkyl esters, C10-rich

Number on list 56: 4,4'-methylenediphenyl diisocyanate

Number on list 74: 4,4'-methylenediphenyl diisocyanate

Number on list 75

| | | |
|---|---|---|
| REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). | : | None of the components are listed (=> 0.1 %). |
| REACH - List of substances subject to authorisation (Annex XIV) | : | Not applicable |
| Regulation (EU) No 2024/590 on substances that deplete the ozone layer | : | Not applicable |
| Regulation (EU) 2019/1021 on persistent organic pollutants (recast) | : | Not applicable |
| Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals | : | Not applicable |

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
Not applicable

| | | |
|---|---|---|
| Volatile organic compounds | : | Law on the incentive tax for volatile organic compounds (VOCV)<br>Volatile organic compounds (VOC) content: 1,45% w/w<br>no VOC duties<br><br>Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)<br>Volatile organic compounds (VOC) content: 1,45% w/w |

**Other regulations:**

Legislative Decree April 9,2008, 81 (Implementation of Article 1 of the Law of 3 August 2007, n. 123, concerning the protection of health and safety in the workplace.) and subsequent amendments

Legislative Decree April 3, 2006, n.152, (Environmental standards) and subsequent amendments

Legislative Decree February 6, 2009, 21 (Regulations for the execution of the provisions laid down in Regulation (EC) no. 648/2004 on detergents)

Take note of Directive 92/85/EEC regarding maternity protection or stricter national regulations, where applicable.

### 15.2 Chemical safety assessment

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

## SECTION 16: Other information

**Full text of H-Statements**

| | | |
|---|---|---|
| H226 | : | Flammable liquid and vapour. |
| H304 | : | May be fatal if swallowed and enters airways. |
| H312 | : | Harmful in contact with skin. |
| H315 | : | Causes skin irritation. |
| H317 | : | May cause an allergic skin reaction. |
| H319 | : | Causes serious eye irritation. |
| H332 | : | Harmful if inhaled. |
| H334 | : | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | : | May cause respiratory irritation. |
| H351 | : | Suspected of causing cancer. |
| H360Df | : | May damage the unborn child. Suspected of damaging fertility. |
| H361f | : | Suspected of damaging fertility. |
| H373 | : | May cause damage to organs through prolonged or repeated exposure if inhaled. |
| H400 | : | Very toxic to aquatic life. |
| H410 | : | Very toxic to aquatic life with long lasting effects. |
| H412 | : | Harmful to aquatic life with long lasting effects. |

**Full text of other abbreviations**

| | | |
|---|---|---|
| Acute Tox. | : | Acute toxicity |
| Aquatic Acute | : | Short-term (acute) aquatic hazard |
| Aquatic Chronic | : | Long-term (chronic) aquatic hazard |
| Asp. Tox. | : | Aspiration hazard |
| Carc. | : | Carcinogenicity |
| Eye Irrit. | : | Eye irritation |
| Flam. Liq. | : | Flammable liquids |
| Repr. | : | Reproductive toxicity |
| Resp. Sens. | : | Respiratory sensitisation |
| Skin Irrit. | : | Skin irritation |
| Skin Sens. | : | Skin sensitisation |
| STOT RE | : | Specific target organ toxicity - repeated exposure |
| STOT SE | : | Specific target organ toxicity - single exposure |
| 2000/39/EC | : | Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values |
| ACGIH | : | USA. ACGIH Threshold Limit Values (TLV) |
| ACGIH BEI | : | ACGIH - Biological Exposure Indices (BEI) |
| IT OEL | : | Italy. List of indicative limit values for professional exposure to chemical agents. |

| | | |
|---|---|---|
| 2000/39/EC / TWA | : | Limit Value - eight hours |
| 2000/39/EC / STEL | : | Short term exposure limit |
| ACGIH / TWA | : | 8-hour, time-weighted average |
| IT OEL / TWA | : | 8 hour exposure limit |
| IT OEL / STEL | : | Short term exposure limit |
| ADR | : | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| CAS | : | Chemical Abstracts Service |
| DNEL | : | Derived no-effect level |
| EC50 | : | Half maximal effective concentration |
| GHS | : | Globally Harmonized System |
| IATA | : | International Air Transport Association |
| IMDG | : | International Maritime Code for Dangerous Goods |
| LD50 | : | Median lethal dosis (the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals) |
| LC50 | : | Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period) |
| MARPOL | : | International Convention for the Prevention of Pollution from Ships, 1973 as modified by the Protocol of 1978 |
| OEL | : | Occupational Exposure Limit |
| PBT | : | Persistent, bioaccumulative and toxic |
| PNEC | : | Predicted no effect concentration |
| REACH | : | Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency |
| SVHC | : | Substances of Very High Concern |
| vPvB | : | Very persistent and very bioaccumulative |

**Further information**

| **Classification of the mixture:** | | **Classification procedure:** |
|---|---|---|
| Resp. Sens. 1 | H334 | Calculation method |
| Skin Sens. 1 | H317 | Calculation method |
| Repr. 1B | H360D | Calculation method |
| Aquatic Chronic 3 | H412 | Calculation method |

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

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