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

1.1. Product identifier

Mixture identification:

Trade name: KIT VETRORESINA Hardenbond indurente per Resin Bond (part B)

Trade code: 54435001

UFI: NA80-10DX-D007-UT0D

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

Intended use: polyester resin kit

Uses advised against: This product is not recommended for all those industrial, professional or consumer uses not specifically identified on the label.

1.3. Details of the supplier of the safety data sheet

Company:

SARATOGA INT. SFORZA SpA

VIALE EDISON, 76 - 20090 TREZZANO S/N (MI)

Tel. +039 02.445731 Fax +039 02.4452742

Competent person responsible for the safety data sheet:

trading@saratogasforza.com

1.4. Emergency telephone number

CAV - Ospedale Pediatrico "Bambino Gesù" - Roma - Tel. +39 06 68593726 (h24)
CAV - Azienda Ospedaliero-Universitaria Foggia - Foggia - Tel. +39 0881 732326 (h24)
CAV - Azienda Ospedaliera "A. Cardarelli" - Napoli - Tel. +39 081 7472870 (h24)
CAV - Policlinico "Umberto I" - Roma - Tel. +39 06 4450618 (h24)
CAV - Policlinico "A. Gemelli" - Roma - Tel. +39 06 3054343 (h24)
CAV - Azienda Ospedaliera "Careggi" U.O. Tossicologia Medica - Firenze - Tel. +39 055 7947819(h24)
CAV - Centro Nazionale di Informazione Tossicologica - Pavia - Tel. +39 0382 24444 (h24)
CAV - Ospedale "Niguarda Ca' Granda" - Milano - Tel. +39 02 66101029 (h24)
CAV - Azienda Ospedaliera "Papa Giovanni XXIII" - Bergamo - Tel. +39 800 883300 (h24)
CAV - Azienda Ospedaliera Integrata Verona - Verona - Tel. +39 800 011858 (h24)

## SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Danger, Org. Perox. D, Heating may cause a fire.

Warning, Repr. 2, Suspected of damaging the unborn child.

Warning, Acute Tox. 4, Harmful if swallowed.

Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.

Danger, Eye Dam. 1, Causes serious eye damage.

Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

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

2.2. Label elements

Hazard pictograms:

Danger

Hazard statements:
H242 Heating may cause a fire.
H361d Suspected of damaging the unborn child.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapours.
P273 Avoid release to the environment.
P280 Wear protective gloves and protective clothing, eye protection, face protection.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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.
P311 Call a POISON CENTER doctor.
P332 + P313 - If skin irritation occurs: Get medical advice attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice and attention.
P403 + P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents and container in accordance with local regulation.

Special Provisions:
PACK1 The packing must be featured by a safety lock for children.
PACK2 The packing must have tactive indications of danger for blind people.

Contains
1-ISOPROPYL-2,2-DIMETHYLTRIMETHYLENDISOBUTYRAT, METHYL ETHYL KETONE PEROXIDE, 4-hydroxy-4-methylpentan-2-one; hydrogen peroxide

Special provisions according to Annex XVII of REACH and subsequent amendments:
None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

## SECTION 3: Composition/information on ingredients

3.2. Mixtures

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

| Qty | Name | Ident. Number | Classification |
|---|---|---|---|
| >= 40% - < 50% | Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide; methyl-ethyl Ketone Peroxide | CAS: 1338-23-4<br>EC: 700-954-4<br>REACH No.: 01-2119514691-43 | 2.15/C Org. Perox. C H242<br>3.1/4/Inhal Acute Tox. 4 H332<br>3.3/1 Eye Dam. 1 H318<br>3.1/4/Oral Acute Tox. 4 H302<br>3.2/1A Skin Corr. 1A H314<br>Specific Concentration Limits:<br>C >= 5%: Skin Corr. 1A H314<br>C >= 5%: Skin Corr. 1B H314<br>C >= 5%: Skin Corr. 1C H314<br>1% <= C < 5%: Skin Irrit. 2 H315<br>C >= 3%: Eye Dam. 1 H318<br>1% <= C < 3%: Eye Irrit. 2 H319 |
| >= 30% - < 40% | DIISOBUTIRATO DI 1-ISOPROPIL-2,2-DIMETILTRIMETILENE | CAS: 6846-50-0<br>EC: 229-934-9<br>REACH No.: 01-2119451093-47 | 3.7/2 Repr. 2 H361d<br>4.1/C3 Aquatic Chronic 3 H412<br>Specific Concentration Limits:<br>C >= 25%: Aquatic Chronic 3 H412<br>C >= 25%: Aquatic Chronic 4 H413 |
| >= 10% - < 12.5% | 4-hydroxy-4-methylpentan-2-one; diacetone alcohol | Index number: 603-016-00-1<br>CAS: 123-42-2<br>EC: 204-626-7<br>REACH No.: 01-2119473975-21 | 3.3/2 Eye Irrit. 2 H319<br>3.7/2 Repr. 2 H361d<br>3.8/3 STOT SE 3 H335<br>Specific Concentration Limits:<br>C >= 10%: Eye Irrit. 2 H319 |
| >= 2.5% - < 3% | butanone; ethyl methyl ketone | Index number: 606-002-00-3<br>CAS: 78-93-3 | 2.6/2 Flam. Liq. 2 H225<br>3.3/2 Eye Irrit. 2 H319 |

| | | | |
|---|---|---|---|
| | | EC: 201-159-0<br>REACH No.: 01-2119457290-43 | 3.8/3 STOT SE 3 H336<br>EUH066 |
| >= 2.5% - < 3% | hydrogen peroxide solution... % | Index number: 008-003-00-9<br>CAS: 7722-84-1<br>EC: 231-765-0<br>REACH No.: 01-2119485845-22 | 2.13/1 Ox. Liq. 1 H271<br>3.3/1 Eye Dam. 1 H318<br>3.8/3 STOT SE 3 H335<br>4.1/C3 Aquatic Chronic 3 H412<br>3.2/1A Skin Corr. 1A H314<br>3.1/4/Oral Acute Tox. 4 H302<br>3.1/4/Inhal Acute Tox. 4 H332<br>Specific Concentration Limits:<br>C >= 70%: Ox. Liq. 1 H271<br>50% <= C < 70%: Ox. Liq. 2 H272<br>C >= 70%: Skin Corr. 1A H314<br>50% <= C < 70%: Skin Corr. 1B H314<br>35% <= C < 50%: Skin Irrit. 2 H315<br>8% <= C < 50%: Eye Dam. 1 H318<br>5% <= C < 8%: Eye Irrit. 2 H319<br>C >= 35%: STOT SE 3 H335 |
| >= 0.3% - < 0.5% | Tributilammina | CAS: 102-82-9<br>EC: 203-058-7<br>REACH No.: 01-2119474898-14 | 3.1/4/Oral Acute Tox. 4 H302<br>3.1/2/Dermal Acute Tox. 2 H310<br>3.2/2 Skin Irrit. 2 H315<br>3.1/2/Inhal Acute Tox. 2 H330<br>Specific Concentration Limits:<br>C >= 10%: Skin Irrit. 2 H315 |

## SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.
OBTAIN IMMEDIATE MEDICAL ATTENTION.
Remove contaminated clothing immediatley 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 a sufficient length of time, then consult an opthalmologist immediately.
Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.
Give nothing to eat or drink.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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:
Water.
Carbon dioxide (CO2).
In case of fire: Use ... to extinguish.
Extinguishing media which must not be used for safety reasons:
None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.
Burning produces heavy smoke.
Hazardous combustion products:

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

For non emergency personnel:
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.
For emergency responders:
Wear personal protection equipment.

6.2. Environmental precautions

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

Wash with plenty of water.

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:
Contamined clothing should be changed before entering eating areas.
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.
Packaging materials:

7.3. Specific end use(s)

None in particular

## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide - CAS: 1338-23-4

- OEL Type: EPY_TLV-ACGIH - STEL: 1.44 mg/m3, .2 ppm
- OEL Type: EPY_TLV-ACGIH - STEL: 1.44 mg/m3, .2 ppm
- OEL Type: ACGIH - STEL: Ceiling 0.2 ppm - Notes: Eye and skin irr, liver and kidney dam

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2

- OEL Type: ACGIH - TWA(8h): 50 ppm - Notes: URT and eye irr

butanone; ethyl methyl ketone - CAS: 78-93-3

- OEL Type: EU - TWA(8h): 600 mg/m3, 200 ppm - STEL: 900 mg/m3, 300 ppm
- OEL Type: ACGIH - TWA(8h): 200 ppm - STEL: 300 ppm - Notes: BEI - URT irr, CNS and PNS impair

hydrogen peroxide solution... % - CAS: 7722-84-1

- OEL Type: EPY_TLV-ACGIH - TWA: 1.4 mg/m3, 1 ppm
- OEL Type: EPY_TLV - TWA: 1.5 mg/m3
- OEL Type: ACGIH - TWA(8h): 1 ppm - Notes: A3 - Eye, URT, and skin irr

DNEL Exposure Limit Values

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide - CAS: 1338-23-4

Worker Professional: 5.288 04 - Consumer: 1.125 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 15.864 04 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Professional: 3 03 - Consumer: 1.5 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 0.75 03 - Exposure: Human Oral - Frequency: Long Term, systemic effects

DIISOBUTIRATO DI 1-ISOPROPIL-2,2-DIMETILTRIMETILENE - CAS: 6846-50-0

Worker Professional: 110 04 - Consumer: 32.6 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 31.2 03 - Consumer: 18.8 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 18.8 03 - Exposure: Human Oral - Frequency: Long Term, systemic effects

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2
Worker Professional: 467 03 - Consumer: 33 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 32.6 04 - Consumer: 5.8 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 1.67 03 - Exposure: Human Oral - Frequency: Long Term, systemic effects

butanone; ethyl methyl ketone - CAS: 78-93-3
Consumer: 31 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Consumer: 106 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Professional: 600 04 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Consumer: 412 03 - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Professional: 412 03 - Exposure: Human Dermal - Frequency: Long Term, local effects

PNEC Exposure Limit Values

Reaction mass of butane-2,2-diyl dihydroperoxide and dioxydibutane-2,2-diyl dihydroperoxide - CAS: 1338-23-4
Target: 08 - Value: 0.0056 mg/l
Target: Marine water - Value: 0.00056 mg/l
Target: 10 - Value: 0.056 mg/l
Target: Microorganisms in sewage treatments - Value: 1.2 mg/l
Target: Freshwater sediments - Value: 0.0876 04
Target: Marine water sediments - Value: 0.00876 04
Target: 09 - Value: 0.0142 04

DIISOBUTIRATO DI 1-ISOPROPIL-2,2-DIMETILTRIMETILENE - CAS: 6846-50-0
Target: Fresh Water - Value: 0.014 mg/l
Target: Marine water - Value: 0.0014 mg/l
Target: Freshwater sediments - Value: 5.29 mg/kg
Target: Marine water sediments - Value: 0.529 mg/kg
Target: 09 - Value: 1.05 mg/kg
Target: Food chain - Value: 83.3 mg/kg
Target: Microorganisms in sewage treatments - Value: 3 mg/l

4-hydroxy-4-methylpentan-2-one; diacetone alcohol - CAS: 123-42-2
Target: Fresh Water - Value: 2 mg/l
Target: Marine water - Value: 0.2 mg/l
Target: Freshwater sediments - Value: 7.4 mg/kg
Target: Marine water sediments - Value: 0.74 mg/kg
Target: 09 - Value: 0.3 04
Target: Microorganisms in sewage treatments - Value: 100 mg/l

butanone; ethyl methyl ketone - CAS: 78-93-3
Target: Fresh Water - Value: 55.8 mg/l
Target: Freshwater sediments - Value: 284.74 04
Target: Marine water sediments - Value: 284.74 04
Target: 10 - Value: 55.8 mg/l
Target: Microorganisms in sewage treatments - Value: 709 mg/l

Target: EPY_CAT-ALIM - Value: 1000 mg/kg
Target: 09 - Value: 22.5 mg/kg
hydrogen peroxide solution... % - CAS: 7722-84-1
Target: Fresh Water - Value: 0.013 mg/l
Target: Marine water - Value: 0.013 mg/l
Target: 10 - Value: 0.014 mg/l
Target: Microorganisms in sewage treatments - Value: 4.66 mg/l
Target: Freshwater sediments - Value: 0.047 04
Target: Marine water sediments - Value: 0.047 04
Target: 09 - Value: 0.002 04

8.2. Exposure controls

Eye protection:
Use close fitting safety goggles, don't use eye lens.

Protection for skin:
Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:
Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:
Not needed for normal use.

Thermal Hazards:
None

Environmental exposure controls:
None

Appropriate engineering controls:
None

## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| **Properties** | **Value** | **Method:** | **Notes** |
|---|---|---|---|
| Physical state: | Liquid | -- | -- |
| Colour: | Colourless | -- | -- |
| Odour: | 07 | -- | -- |
| Melting point/freezing point: | <-20°C | -- | -- |
| Boiling point or initial boiling point and boiling range: | >100°C si decompone al calore | -- | -- |
| Flammability: | Risk of explosion in case of ignition | -- | -- |
| Lower and upper explosion limit: | N.A. | -- | -- |
| Flash point: | 78.5 ° C | -- | -- |
| Auto-ignition temperature: | >200°C | -- | -- |
| Decomposition temperature: | 64°C (SADT) | -- | The mixture is not self-reactive. |
| pH: | N.A. | -- | -- |
| Kinematic viscosity: | <= 14 mm2/sec (40 | -- | -- |

| | | | |
|---|---|---|---|
| | °C) | | |
| Solubility in water: | 07 | -- | -- |
| Solubility in oil: | N.A. | -- | -- |
| Partition coefficient n-octanol/water (log value): | N.A. | -- | The product is a mixture. |
| Vapour pressure: | 2 mm Hg | -- | -- |
| Density and/or relative density: | 1.019 g/ml | -- | -- |
| Relative vapour density: | 20 hPa @ 20°C | -- | -- |
| Particle characteristics: | | | |
| Particle size: | N.A. | -- | The product is not a solid. |

9.2. Other information

| **Properties** | **Value** | **Method:** | **Notes** |
|---|---|---|---|
| Explosive properties: | No | -- | -- |
| Viscosity: | <20.5 mm²/s 40°C | -- | -- |
| Oxidizing properties: | No | -- | -- |

## SECTION 10: Stability and reactivity

10.1. Reactivity
Stable under normal conditions
10.2. Chemical stability
Stable under normal conditions
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
None in particular.
10.6. Hazardous decomposition products
None.

## SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
HARDEN BOND LIQUIDO
a) acute toxicity
The product is classified: Acute Tox. 4 H302
ATEmix - Oral 1121,08 mg/kg bw
b) skin corrosion/irritation
The product is classified: Skin Corr. 1A H314
c) serious eye damage/irritation
The product is classified: Eye Dam. 1 H318
d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met
e) germ cell mutagenicity

Not classified
Based on available data, the classification criteria are not met

f) carcinogenicity
Not classified
Based on available data, the classification criteria are not met

g) reproductive toxicity
The product is classified: Repr. 2 H361d

h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met

i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met

j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:
N.A.

11.2. Information on other hazards
Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

## SECTION 12: Ecological information

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

HARDEN BOND LIQUIDO
The product is classified: Aquatic Chronic 3 - H412

12.2. Persistence and degradability
N.A.

12.3. Bioaccumulative potential
N.A.

12.4. Mobility in soil
N.A.

12.5. Results of PBT and vPvB assessment
vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties
No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects
None

## SECTION 13: Disposal considerations

13.1. Waste treatment methods
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.

## SECTION 14: Transport information

14.1. UN number or ID number
ADR-UN Number: 3105
ADR/RID/ADN-UN Number: 3105
ADR/RID-UN Number: 3105
ADR/ADN-UN Number: 3105
IATA-UN Number: 3105
IMDG-UN Number: 3105
14.2. UN proper shipping name
ADR-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
ADR/RID-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
ADR/ADN-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
ADR/RID/ADN-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
IATA-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
IMDG-Shipping Name: ORGANIC PEROXIDE TYPE D, LIQUID
14.3. Transport hazard class(es)
ADR-Class: 5.2
ADR/RID-Class: 5.2
ADR/ADN-Class: 5.2
ADR/RID/ADN-Class: 5.2
ADR - Hazard identification number: -
IATA-Class: 5.2
IATA-Label: 5.2 + KAFH
IMDG-Class: 5.2
14.4. Packing group
ADR-Packing Group: -
ADR/RID-Packing Group: -
ADR/ADN-Packing Group: -
ADR/RID/ADN-Packing Group: -
IATA-Packing group: -
IMDG-Packing group: -
14.5. Environmental hazards
ADR-Enviromental Pollutant: No
IMDG-Marine pollutant: No
IMDG-EmS: F-J , S-R
14.6. Special precautions for user
ADR-Subsidiary hazards: -
ADR-S.P.: 122 274
ADR-Transport category (Tunnel restriction code): 2 (D)
IATA-Passenger Aircraft: 570
IATA-Subsidiary hazards: -
IATA-Cargo Aircraft: 570
IATA-S.P.: A20 A150 A802
IATA-ERG: 5L
IMDG-Subsidiary hazards: -
IMDG-Stowage and handling: Category D SW1
IMDG-Segregation: SG35 SG36 SG72
14.7. Maritime transport in bulk according to IMO instruments
N.A.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
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) n. 2020/878
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)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2021/849 (ATP 17 CLP)
Regulation (EU) n. 2022/692 (ATP 18 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:

Restriction 75

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

None

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:

H242 Heating may cause a fire.
H332 Harmful if inhaled.
H318 Causes serious eye damage.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H361d Suspected of damaging the unborn child.
H412 Harmful to aquatic life with long lasting effects.
H413 May cause long lasting harmful effects to aquatic life.
H335 May cause respiratory irritation.
H225 Highly flammable liquid and vapour.
H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.
H271 May cause fire or explosion; strong oxidiser.
H272 May intensify fire; oxidiser.
H310 Fatal in contact with skin.
H330 Fatal if inhaled.

| **Hazard class and hazard category** | **Code** | **Description** |
|---|---|---|
| Ox. Liq. 1 | 2.13/1 | Oxidising liquid, Category 1 |
| Ox. Liq. 2 | 2.13/2 | Oxidising liquid, Category 2 |
| Org. Perox. C | 2.15/C | Organic peroxide, Type C |
| Org. Perox. D | 2.15/D | Organic peroxide, Type D |
| Flam. Liq. 2 | 2.6/2 | Flammable liquid, Category 2 |
| Acute Tox. 2 | 3.1/2/Dermal | Acute toxicity (dermal), Category 2 |
| Acute Tox. 2 | 3.1/2/Inhal | Acute toxicity (inhalation), Category 2 |
| Acute Tox. 4 | 3.1/4/Inhal | Acute toxicity (inhalation), Category 4 |
| Acute Tox. 4 | 3.1/4/Oral | Acute toxicity (oral), Category 4 |
| Skin Corr. 1A | 3.2/1A | Skin corrosion, Category 1A |
| Skin Corr. 1B | 3.2/1B | Skin corrosion, Category 1B |
| Skin Corr. 1C | 3.2/1C | Skin corrosion, Category 1C |
| 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 |
| Repr. 2 | 3.7/2 | Reproductive toxicity, Category 2 |
| STOT SE 3 | 3.8/3 | Specific target organ toxicity - single exposure, Category 3 |
| Aquatic Chronic 3 | 4.1/C3 | Chronic (long term) aquatic hazard, category 3 |
| Aquatic Chronic 4 | 4.1/C4 | Chronic (long term) aquatic hazard, category 4 |

This safety data sheet has been completely updated in compliance to Regulation 2020/878.
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** |
|---|---|
| Org. Perox. D, H242 | On basis of test data |
| Repr. 2, H361d | Calculation method |
| Acute Tox. 4, H302 | Calculation method |
| Skin Corr. 1A, H314 | Calculation method |
| Eye Dam. 1, H318 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

This document was prepared by a competent person who has received appropriate training.
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. |
| GefStoffVO: | Ordinance on Hazardous Substances, Germany. |
| GHS: | Globally Harmonized System of Classification and Labeling of Chemicals. |
| IATA: | International Air Transport Association. |
| IATA-DGR: | Dangerous Goods Regulation by the "International Air Transport Association" (IATA). |
| ICAO: | International Civil Aviation Organization. |
| ICAO-TI: | Technical Instructions by the "International Civil Aviation Organization" (ICAO). |
| 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. |
| LD50: | Lethal dose, for 50 percent of test population. |
| 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 |
| WGK: | German Water Hazard Class. |