

Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

1.1. Product identifier

Code: PF270
Product name: ADEPRENE TUBETTO
Chemical name and synonym: ADHESIVES

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

Intended use: Adesivo policloroprenico raccomandato per l'uso al dettaglio

1.3. Details of the supplier of the safety data sheet

Name: ADECO SRL
Full address: Via delle Industrie 6/a
District and Country: 26835 Crespiatica (Lodi)
Italia
Tel. 0039-0371484621
Fax 0039-0371484618

e-mail address of the competent person

responsible for the Safety Data Sheet: colombi@adesviadeco.it
Product distribution by: Pier Filippo Colombi

1.4. Emergency telephone number

For urgent inquiries refer to

TEL. 0039-0371-484621 dal Lunedì al Giovedì dalle 08,30 alle 12,30 3 dalle 13,30 alle 17,30
il Venerdì dalle 08,00 alle 14,30
Centro Antiveleni Milano 02-66101029 (CAV Ospedale Niguarda Ca' Granda -Milano) (h24)
Centro Antiveleni Pavia 0382-24444 (CAV IRCCS Fondazione Maugeri-Pavia)
Centro Antiveleni di Bergamo 800883300 (CAV Ospedali Riuniti-Bergamo)
Centro Antiveleni di Firenze 055-7947819 (CAV Ospedale Careggi- Firenze)
Centro Antiveleni di Roma 06-3054343 (CAV Policlinico Gemelli-Roma)
Centro Antiveleni di Roma 06-49978000 (CAV Policlinico Umberto I - Roma)
Centro Antiveleni di Napoli 081-7472870 (CAV Ospedale Cardarelli - Napoli)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Flammable liquid, category 2
Eye irritation, category 2

H225
H319

Highly flammable liquid and vapour.
Causes serious eye irritation.

PF270 - ADEPRENE TUBETTO

| | | |
|--|------|--|
| Skin irritation, category 2 | H315 | Causes skin irritation. |
| Specific target organ toxicity - single exposure, category 3 | H336 | May cause drowsiness or dizziness. |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words:

Danger

Hazard statements:

| | |
|---------------|--|
| H225 | Highly flammable liquid and vapour. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH208 | Contains: ROSIN May produce an allergic reaction. |

Precautionary statements:

| | |
|-------------|--|
| P501 | Dispose of contents/container in accordance with the provisions of regional/national/international |
| P102 | Keep out of reach of children. |
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P280 | Wear protective gloves/ protective clothing / eye protection / face protection. |

Contains: BUTANONE
ACETONE
Isoalkanes C6 hydrocarbons <5% n-hexane
ETHYL ACETATE

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

SECTION 3. Composition/information on ingredients**3.2. Mixtures**

Contains:

PF270 - ADEPRENE TUBETTO

| Identification | x = Conc. % | Classification 1272/2008 (CLP) |
|---|----------------------|---|
| BUTANONE | | |
| CAS 78-93-3 | $20 \leq x < 30$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC 201-159-0 | | |
| INDEX 606-002-00-3 | | |
| Reg. no. 01-2119457290-43 | | |
| ETHYL ACETATE | | |
| CAS 141-78-6 | $10 \leq x < 20$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC 205-500-4 | | |
| INDEX 607-022-00-5 | | |
| Reg. no. 01-2119475103-46 | | |
| Isoalkanes C6 hydrocarbons <5% n-hexane | | |
| CAS - | $10 \leq x < 20$ | Flam. Liq. 2 H225, Asp. Tox. 1 H304, Eye Irrit. 2 H319, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411 |
| EC 931-254-9 | | |
| INDEX - | | |
| Reg. no. 01-2119484651-34 | | |
| ACETONE | | |
| CAS 67-64-1 | $10 \leq x < 20$ | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 |
| EC 200-662-2 | | |
| INDEX 606-001-00-8 | | |
| Reg. no. 01-2119471330-49 | | |
| ROSIN | | |
| CAS 8050-09-7 | $0,5 \leq x < 1$ | Skin Sens. 1 H317 |
| EC 232-475-7 | | |
| INDEX 650-015-00-7 | | |
| Reg. no. 01-2119480418-32-0004 | | |
| XYLENE (MIXTURE OF ISOMERS) | | |
| CAS 1330-20-7 | $0,098 \leq x < 0,2$ | Flam. Liq. 3 H226, Acute Tox. 4 H312, Acute Tox. 4 H332, Skin Irrit. 2 H315, Classification note/notes according to Annex VI to the CLP Regulation: C |
| EC 215-535-7 | | |
| INDEX 601-022-00-9 | | |
| ZINC OXIDE | | |
| CAS 1314-13-2 | $0,098 \leq x < 0,2$ | Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1 |
| EC 215-222-5 | | |
| INDEX 030-013-00-7 | | |
| Reg. no. 01-2119463881-32-0078 | | |
| ETHYLBENZENE | | |
| CAS 100-41-4 | $0 \leq x < 0,099$ | Flam. Liq. 2 H225, Acute Tox. 4 H332, Asp. Tox. 1 H304, STOT RE 2 H373 |
| EC 202-849-4 | | |
| INDEX 601-023-00-4 | | |
| Reg. no. 01-2119489370-35 | | |
| Tertiary butyl phenol | | |
| CAS 98-54-4 | $0 \leq x < 0,099$ | Repr. 2 H361f, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 1 H410 M=1 |
| EC 202-679-00 | | |

INDEX -

Reg. no. 01-2119489419-21

FORMALDEHYDE

CAS 50-00-0

$0 \leq x < 0,099$

Carc. 1B H350, Muta. 2 H341, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, Skin Corr. 1B H314, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Classification note/notes according to Annex VI to the CLP Regulation: B D

EC 200-001-8

INDEX 605-001-00-5

Reg. no. 01-2119488953-20

The full wording of hazard (H) phrases is given in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

Send away individuals who are not suitably equipped. Use explosion-proof equipment. Eliminate all sources of ignition (cigarettes, flames, sparks, etc.) from the leakage site.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

PF270 - ADEPRENE TUBETTO

Regulatory References:

| | | |
|-----|-----------------|---|
| CZE | Česká Republika | Nariadení vlády č. 246/2018 Sb. Nariadení vlády, kterým se mění nariadení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci, ve znění pozdějších předpisů |
| DEU | Deutschland | TRGS 900 - Seite 1 von 69 (Fassung 29.03.2019)- Liste der Arbeitsplatzgrenzwerte und Kurzzeitwerte |
| ESP | España | LÍMITES DE EXPOSICIÓN PROFESIONAL PARA AGENTES QUÍMICOS EN ESPAÑA 2019 (INSST) |
| FRA | France | Valeurs limites d'exposition professionnelle aux agents chimiques en France. ED 984 - INRS |
| FIN | Suomi | HTP-VÄRDEN 2018. Koncentrationer som befunnits skadliga. SOCIAL- OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 10/2018 |
| GRC | Ελλάδα | ΕΦΗΜΕΡΙΔΑ ΤΗΣ ΚΥΒΕΡΝΗΣΕΩΣ - ΤΕΥΧΟΣ ΠΡΩΤΟ Αρ. Φύλλου 152 - 21 Αυγούστου 2018 |
| HUN | Magyarország | A pénzügyminiszter 7/2018. (VIII. 29.) PM rendelete a munkahelyek kémiai biztonságáról szóló 25/2000. (IX. 30.) EüM-SZCSM együ, TTes rendelet módosításáról. |
| HRV | Hrvatska | Pravilnik o zaštiti radnika od izloženosti opasnim kemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 91/18) |
| ITA | Italia | Decreto Legislativo 9 Aprile 2008, n.81 |
| POL | Polska | ROZPORZADZENIE MINISTRA RODZINY, PRACY I POLITYKI SPOŁECZNEJ z dnia 12 czerwca 2018 r |
| ROU | România | HOTĂRÂRE nr. 584 din 2 august 2018 pentru modificarea Hotărârii Guvernului nr. 1.218/2006 privind stabilirea cerințelor minime de securitate și sănătate în muncă pentru asigurarea protecției lucrătorilor împotriva riscurilor legate de prezența agenților chimici |
| SWE | Sverige | Hygieniska gränsvärden, AFS 2018:1 |
| GBR | United Kingdom | EH40/2005 Workplace exposure limits (Third edition, published 2018) |
| EU | OEL EU | Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC. |
| | TLV-ACGIH | ACGIH 2020 |

BUTANONE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-------|------------|-------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 600 | 200,4 | 900 | 300,6 | |
| AGW | DEU | 600 | 200 | 600 | 200 | SKIN |
| MAK | DEU | 600 | 200 | 600 | 200 | SKIN |
| VLA | ESP | 600 | 200 | 900 | 300 | |
| VLEP | FRA | 600 | 200 | 900 | 300 | SKIN |
| HTP | FIN | | | 300 | 100 | SKIN |
| TLV | GRC | 600 | 200 | 900 | 300 | |
| AK | HUN | 600 | | 900 | | SKIN |
| GVI/KGVI | HRV | 600 | 200 | 900 | 300 | |
| VLEP | ITA | 600 | 200 | 900 | 300 | |
| NDS/NDSch | POL | 450 | | 900 | | SKIN |
| TLV | ROU | 600 | 200 | 900 | 300 | |
| NGV/KGV | SWE | 150 | 50 | 900 | 300 | |
| WEL | GBR | 600 | 200 | 899 | 300 | SKIN |
| OEL | EU | 600 | 200 | 900 | 300 | |
| TLV-ACGIH | | 590 | 200 | 885 | 300 | |

Predicted no-effect concentration - PNEC

| | | |
|--|--------|-------|
| Normal value in fresh water | 55,8 | mg/l |
| Normal value for fresh water sediment | 284,74 | mg/kg |
| Normal value for marine water sediment | 284,74 | mg/kg |
| Normal value of STP microorganisms | 709 | mg/l |
| Normal value for the terrestrial compartment | 22,5 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

ADECO SRL

Revision nr. 117

Dated 23/12/2020

PF270 - ADEPRENE TUBETTO

Printed on 17/02/2021

Page n. 7/26

Replaced revision:116 (Dated: 02/12/2020)

| Route of exposure | Effects on consumers | | | Effects on workers | | | | |
|-------------------|----------------------|----------------|---------------|-----------------------|-------------|----------------|---------------|-----------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 31 mg/kg | | | | |
| Inhalation | | | | 106 mg/m ³ | | | | 600 mg/m ³ |
| Skin | | | | 412 mg/kg | | | | 1161 mg/kg |

ETHYL ACETATE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|-------------------|-------|-------------------|-------|------------------------|
| | | mg/m ³ | ppm | mg/m ³ | ppm | |
| TLV | CZE | 700 | 191,1 | 900 | 245,7 | |
| AGW | DEU | 730 | 200 | 1460 | 400 | |
| MAK | DEU | 750 | 200 | 1500 | 400 | |
| VLA | ESP | 734 | 200 | 1468 | 400 | |
| VLEP | FRA | 734 | 200 | 1468 | 400 | |
| HTP | FIN | 730 | 200 | 1470 | 400 | |
| TLV | GRC | 734 | 200 | 1468 | 400 | |
| AK | HUN | 734 | | 1468 | | |
| GVI/KGVI | HRV | 734 | 200 | 1468 | 400 | |
| NDS/NDSCh | POL | 734 | | 1468 | | |
| TLV | ROU | 400 | 111 | 500 | 139 | |
| NGV/KGV | SWE | 550 | 150 | 1100 | 300 | |
| WEL | GBR | 734 | 200 | 1468 | 400 | |
| OEL | EU | 734 | 200 | 1468 | 400 | |
| TLV-ACGIH | | 1441 | 400 | | | |

Predicted no-effect concentration - PNEC

| | | |
|---|-------|---------|
| Normal value in fresh water | 0,24 | mg/l |
| Normal value in marine water | 0,02 | mg/l |
| Normal value for fresh water sediment | 1,15 | mg/kg/d |
| Normal value for marine water sediment | 0,115 | mg/kg/d |
| Normal value of STP microorganisms | 650 | mg/l |
| Normal value for the food chain (secondary poisoning) | 0,2 | g/kg |
| Normal value for the terrestrial compartment | 0,148 | mg/kg/d |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | |
|-------------------|-----------------------|-----------------------|-----------------------|-----------------------|------------------------|------------------------|-----------------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 4,5 mg/kg bw/d | | | | |
| Inhalation | 734 mg/m ³ | 734 mg/m ³ | 367 mg/m ³ | 367 mg/m ³ | 1468 mg/m ³ | 1468 mg/m ³ | 734 mg/m ³ | 734 mg/kg |
| Skin | | | | 37 mg/kg bw/d | | | | 63 mg/kg bw/d |

Isoalkanes C6 hydrocarbons <5% n-hexane

Threshold Limit Value

| Type | Country | TWA/8h | STEL/15min | Remarks / Observations |
|------|---------|--------|------------|------------------------|
| | | | | |

PF270 - ADEPRENE TUBETTO

| | | mg/m3 | ppm | mg/m3 | ppm |
|--|--|-------|-----|-------|-----|
|--|--|-------|-----|-------|-----|

| | | | | | |
|------|-----|------|-----|--|--|
| VLEP | ITA | 1200 | 353 | | |
|------|-----|------|-----|--|--|

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | VND | 1301 mg/kg/d | | | | | | |
| Inhalation | | | VND | 1137 mg/m3 | | | VND | 5306 mg/m3 |
| Skin | | | VND | 1377 mg/kg bw/d | | | VND | 13964 mg/kg bw/d |

ACETONE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-------|------------|----------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 800 | 331,2 | 1500 | 621 | |
| AGW | DEU | 1200 | 500 | 2400 (C) | 1000 (C) | |
| MAK | DEU | 1200 | 500 | 2400 | 1000 | |
| VLEP | FRA | 1210 | 500 | 2420 | 1000 | |
| HTP | FIN | 1200 | 500 | 1500 | 630 | |
| TLV | GRC | 1780 | | 3560 | | |
| AK | HUN | 1210 | | | | |
| GVI/KGVI | HRV | 1210 | 500 | | | |
| VLEP | ITA | 1210 | 500 | | | |
| NDS/NDSch | POL | 600 | | 1800 | | |
| TLV | ROU | 1210 | 500 | | | |
| NGV/KGV | SWE | 600 | 250 | 1200 (C) | 500 (C) | |
| WEL | GBR | 1210 | 500 | 3620 | 1500 | |
| OEL | EU | 1210 | 500 | | | |
| TLV-ACGIH | | | 250 | | 500 | |

Predicted no-effect concentration - PNEC

| | | | | | |
|--|--|--|--|------|-------|
| Normal value in fresh water | | | | 10,6 | mg/l |
| Normal value in marine water | | | | 21 | mg/l |
| Normal value for fresh water sediment | | | | 30,4 | mg/kg |
| Normal value for marine water sediment | | | | 3,04 | mg/kg |
| Normal value of STP microorganisms | | | | 100 | mg/l |
| Normal value for the terrestrial compartment | | | | 33,3 | mg/kg |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 62 mg/kg | | | | |
| Inhalation | | | | 200 mg/m3 | | 2420 mg/m3 | | 1210 mg/m3 |
| Skin | | | | 62 mg/kg | | | | 186 mg/kg |

ROSIN

Threshold Limit Value

PF270 - ADEPRENE TUBETTO

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 1 | | | | INHAL |
| GVI/KGVI | HRV | 0,05 | | 0,15 | | |
| TLV | ROU | 0,1 | | | | |
| WEL | GBR | 0,05 | | 0,15 | | |
| TLV-ACGIH | | 0,001 | | | | INHAL |

XYLENE (MIXTURE OF ISOMERS)

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|------|------------|------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 200 | 45,4 | 400 | 90,8 | SKIN |
| AGW | DEU | 440 | 100 | 880 | 200 | SKIN |
| MAK | DEU | 440 | 100 | 880 | 200 | SKIN |
| VLA | ESP | 221 | 50 | 442 | 100 | SKIN |
| VLEP | FRA | 221 | 50 | 442 | 100 | SKIN |
| HTP | FIN | 220 | 50 | 440 | 100 | SKIN |
| TLV | GRC | 435 | 100 | 650 | 150 | |
| AK | HUN | 221 | | 442 | | SKIN |
| GVI/KGVI | HRV | 221 | 50 | 442 | 100 | SKIN |
| VLEP | ITA | 221 | 50 | 442 | 100 | SKIN |
| NDS/NDSch | POL | 100 | | 200 | | SKIN |
| TLV | ROU | 221 | 50 | 442 | 100 | SKIN |
| NGV/KGV | SWE | 221 | 50 | 442 | 100 | SKIN |
| WEL | GBR | 220 | 50 | 441 | 100 | SKIN |
| OEL | EU | 221 | 50 | 442 | 100 | SKIN |
| TLV-ACGIH | | 434 | 100 | 651 | 150 | |

Predicted no-effect concentration - PNEC

| | | |
|--|-------|---------|
| Normal value in fresh water | 0,327 | mg/l |
| Normal value in marine water | 0,327 | mg/l |
| Normal value for fresh water sediment | 12,46 | mg/kg/d |
| Normal value for marine water sediment | 12,46 | mg/kg/d |
| Normal value of STP microorganisms | 6,58 | mg/l |
| Normal value for the terrestrial compartment | 2,31 | mg/kg/d |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | Effects on workers | | | | |
|-------------------|----------------------|----------------|---------------|--------------------|-------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 12,5 mg/kg bw/d | | | | |
| Inhalation | 260 mg/m3 | 260 mg/m3 | 65,3 mg/m3 | 65,3 mg/m3 | 442 mg/m3 | 442 mg/m3 | 221 mg/m3 | 221 mg/m3 |
| Skin | | | | 125 mg/kg bw/d | | | | 212 mg/kg bw/d |

ZINC OXIDE

Threshold Limit Value

ADECO SRL

Revision nr. 117

Dated 23/12/2020

PF270 - ADEPRENE TUBETTO

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Page n. 10/26

Replaced revision:116 (Dated: 02/12/2020)

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|-----|------------|-----|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 2 | | 5 | | Jako Zn |
| MAK | DEU | 2 | | 4 | | INHAL |
| MAK | DEU | 0,1 | | 0,4 | | RESP |
| VLA | ESP | 2 | | 10 | | |
| VLEP | FRA | 5 | | | | |
| HTP | FIN | 2 | | 10 | | |
| TLV | GRC | 5 | | 10 | | |
| AK | HUN | 5 | | | | |
| GVI/KGVI | HRV | 2 | | 10 | | RESP |
| NDS/NDSch | POL | 5 | | 10 | | INHAL |
| TLV | ROU | 5 | | 10 | | Fumuri |
| NGV/KGV | SWE | 5 | | | | |
| TLV-ACGIH | | 2 | | 10 | | |

ETHYLBENZENE

Threshold Limit Value

| Type | Country | TWA/8h | | STEL/15min | | Remarks / Observations |
|-----------|---------|--------|------|------------|-------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm | |
| TLV | CZE | 200 | 45,4 | 500 | 113,5 | SKIN |
| AGW | DEU | 88 | 20 | 176 | 40 | SKIN |
| MAK | DEU | 88 | 20 | 176 | 40 | SKIN |
| VLA | ESP | 441 | 100 | 884 | 200 | SKIN |
| VLEP | FRA | 88,4 | 20 | 442 | 100 | SKIN |
| HTP | FIN | 220 | 50 | 880 | 200 | SKIN |
| TLV | GRC | 435 | 100 | 545 | 125 | |
| AK | HUN | 442 | | 884 | | SKIN |
| GVI/KGVI | HRV | 442 | 100 | 884 | 200 | SKIN |
| VLEP | ITA | 442 | 100 | 884 | 200 | SKIN |
| NDS/NDSch | POL | 200 | | 400 | | SKIN |
| TLV | ROU | 442 | 100 | 884 | 200 | SKIN |
| NGV/KGV | SWE | 220 | 50 | 884 | 200 | SKIN |
| WEL | GBR | 441 | 100 | 552 | 125 | SKIN |
| OEL | EU | 442 | 100 | 884 | 200 | SKIN |
| TLV-ACGIH | | 87 | 20 | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|------|---------|
| Normal value in fresh water | 0,1 | mg/l |
| Normal value in marine water | 0,01 | mg/l |
| Normal value for fresh water sediment | 13,7 | mg/kg |
| Normal value for marine water sediment | 1,37 | mg/kg |
| Normal value of STP microorganisms | 9,6 | mg/l |
| Normal value for the terrestrial compartment | 2,68 | mg/kg/d |

PF270 - ADEPRENE TUBETTO

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 1,6 mg/kg bw/d | | | | |
| Inhalation | | | | 15 mg/m3 | | | 293 mg/m3 | 77 mg/m3 |
| Skin | | | | | | | | 180 mg/kg bw/d |

**Tertiary butyl phenol
Threshold Limit Value**

| Type | Country | TWA/8h | Chronic local | Chronic systemic | Remarks / Observations |
|------|---------|--------|---------------|------------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| OEL | EU | 2,5 | | | |

Predicted no-effect concentration - PNEC

| | | |
|--|-------|---------|
| Normal value in fresh water | 0,01 | mg/l |
| Normal value in marine water | 0,001 | mg/l |
| Normal value for fresh water sediment | 0,27 | mg/kg/d |
| Normal value for marine water sediment | 0,027 | mg/kg/d |
| Normal value for water, intermittent release | 0,048 | mg/l |
| Normal value of STP microorganisms | 1,5 | mg/l |
| Normal value for the terrestrial compartment | 0,27 | mg/kg/d |

Health - Derived no-effect level - DNEL / DMEL

| Route of exposure | Effects on consumers | | | | Effects on workers | | | |
|-------------------|----------------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | | | | 0,026 mg/kg bw/d | | | | |
| Inhalation | | | | 0,09 mg/m3 | | | | 0,5 mg/m3 |
| Skin | | | | 0,026 mg/kg bw/d | | | | 0,071 mg/kg bw/d |

FORMALDEHYDE**Threshold Limit Value**

| Type | Country | TWA/8h | Chronic local | Chronic systemic | Remarks / Observations |
|-----------|---------|--------|---------------|------------------|------------------------|
| | | mg/m3 | ppm | mg/m3 | ppm |
| TLV | CZE | 0,5 | 0,4005 | 1 | 0,801 |
| AGW | DEU | 0,37 | 0,3 | 0,74 | 0,6 |
| VLA | ESP | 0,37 | 0,3 | 0,74 | 0,6 |
| VLEP | FRA | | 0,5 | | 1 |
| HTP | FIN | 0,37 | 0,3 | 1,2 (C) | 1 (C) |
| TLV | GRC | 2,5 | 2 | 2,5 | 2 |
| AK | HUN | 0,6 | | 0,6 | SKIN |
| GVI/KGVI | HRV | 2,5 | 2 | 2,5 | 2 |
| NDS/NDSch | POL | 0,37 | | 0,74 | SKIN |
| TLV | ROU | 1,2 | 1 | 3 | 2 |
| NGV/KGV | SWE | 0,37 | 0,3 | 0,74 | 0,6 |
| WEL | GBR | 2,5 | 2 | 2,5 | 2 |

PF270 - ADEPRENE TUBETTO

| | | | | | | | | | |
|---|----------------------|----------------|---------------|------------------|--------------------|----------------|------------------|------------------|--|
| OEL | EU | 0,37 | 0,3 | 0,74 | 0,6 | | | | |
| TLV-ACGIH | | | 0,1 | | 0,3 (C) | | | | |
| Predicted no-effect concentration - PNEC | | | | | | | | | |
| Normal value in fresh water | | | | 0,44 | | mg/l | | | |
| Normal value in marine water | | | | 0,044 | | mg/l | | | |
| Normal value for fresh water sediment | | | | 2,3 | | mg/kg/d | | | |
| Normal value for marine water sediment | | | | 2,3 | | mg/kg/d | | | |
| Normal value of STP microorganisms | | | | 0,19 | | mg/l | | | |
| Normal value for the terrestrial compartment | | | | 0,2 | | mg/kg/d | | | |
| Health - Derived no-effect level - DNEL / DMEL | | | | | | | | | |
| | Effects on consumers | | | | Effects on workers | | | | |
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic | |
| Oral | | | | 4,1 mg/kg bw/d | | | | | |
| Inhalation | | | | 3,2 mg/m3 | 0,75 mg/m3 | | 0,375 mg/m3 | 9 mg/m3 | |
| Skin | | | 0,12 mg/cm2 | 102 mg/kg bw/d | | | 0,037 mg/kg bw/d | 240 mg/kg bw/d | |

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

Consider the appropriateness of providing antistatic clothing in the case of working environments in which there is a risk of explosion.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold

PF270 - ADEPRENE TUBETTO

values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|-----------------------------|
| Appearance | liquid |
| Colour | straw yellow |
| Odour | characteristic of solvent |
| Odour threshold | Not available |
| pH | Not available |
| Melting point / freezing point | Not available |
| Initial boiling point | 72 °C |
| Boiling range | Not available |
| Flash point | -15 °C |
| Evaporation Rate | Not available |
| Flammability of solids and gases | Not available |
| Lower inflammability limit | 2,1 % (V/V) |
| Upper inflammability limit | 13 % (V/V) |
| Lower explosive limit | Not available |
| Upper explosive limit | Not available |
| Vapour pressure | 113,48 mmHg |
| Vapour density | Not available |
| Relative density | 0,85 |
| Solubility | soluble in organic solvents |
| Partition coefficient: n-octanol/water | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | 3000 C.p.s a 20 C° |
| Explosive properties | Not available |
| Oxidising properties | Not available |

9.2. Other information

| | |
|------------------------------|--------------------------|
| Total solids (250°C / 482°F) | 20,70 % |
| VOC (Directive 2010/75/EC) : | 79,56 % - 673,10 g/litre |
| VOC (volatile carbon) : | 53,09 % - 449,17 g/litre |

SECTION 10. Stability and reactivity

PF270 - ADEPRENE TUBETTO

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

BUTANONE

Decomposes under the effect of heat.

ETHYL ACETATE

Decomposes slowly into acetic acid and ethanol under the effect of light, air and water.

ACETONE

Decomposes under the effect of heat.

FORMALDEHYDE

Decomposes under the effect of heat.

Aqueous solutions are stabilised with methanol but tend to polymerise over time.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

BUTANONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

ETHYL ACETATE

Risk of explosion on contact with: alkaline metals,hydrides,oleum.May react violently with: fluorine,strong oxidising agents,chlorosulphuric acid,potassium tert-butoxide.Forms explosive mixtures with: air.

ACETONE

Risk of explosion on contact with: bromine trifluoride,fluorine dioxide,hydrogen peroxide,nitrosyl chloride,2-methyl-1,3 butadiene,nitromethane,nitrosyl perchlorate.May react dangerously with: potassium tert-butoxide,alkaline hydroxides,bromine,bromoform,isoprene,sodium,sulphur dioxide,chromium trioxide,chromyl chloride,nitric acid,chloroform,peroxymonosulphuric acid,phosphoryl oxychloride,chromosulphuric acid,fluorine,strong oxidising agents,strong reducing agents.Develops flammable gas on contact with: nitrosyl perchlorate.

XYLENE (MIXTURE OF ISOMERS)

Stable in normal conditions of use and storage.Reacts violently with: strong oxidants,strong acids,nitric acid,perchlorates.May form explosive mixtures

PF270 - ADEPRENE TUBETTO

with: air.

ETHYLBENZENE

Reacts violently with: strong oxidants. Attacks various types of plastic materials. May form explosive mixtures with: air.

FORMALDEHYDE

Risk of explosion on contact with: nitromethane, nitrogen dioxide, hydrogen peroxide, phenols, performic acid, nitric acid. May polymerise on contact with: strong oxidising agents, alkalis. May react dangerously with: hydrochloric acid, magnesium carbonate, sodium hydroxide, perchloric acid, aniline. Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

BUTANONE

Avoid exposure to: sources of heat, naked flames.

ETHYL ACETATE

Avoid exposure to: light, sources of heat, naked flames.

ACETONE

Avoid exposure to: sources of heat, naked flames.

FORMALDEHYDE

Avoid exposure to: light, sources of heat, naked flames.

10.5. Incompatible materials

BUTANONE

Incompatible with: acids, oxidising substances.

ETHYL ACETATE

Incompatible with: acids, bases, strong oxidants, aluminium, nitrates, chlorosulphuric acid. Incompatible materials: plastic materials.

ACETONE

Incompatible with: acids, oxidising substances.

FORMALDEHYDE

Incompatible with: acids, alkalis, ammonia, tannin, strong oxidants, phenols, copper salts, silver, iron.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

BUTANONE

May develop: ketenes, irritant substances.

ACETONE

May develop: ketenes, irritant substances.

ETHYLBENZENE

May develop: methane, styrene, hydrogen, ethane.

FORMALDEHYDE

When heated to decomposition releases: methanol, carbon monoxide.

SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

XYLENE (MIXTURE OF ISOMERS)

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air.

ETHYLBENZENE

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

XYLENE (MIXTURE OF ISOMERS)

Toxic effect on the central nervous system (encephalopathy); irritating for the skin, conjunctiva, cornea and respiratory apparatus.

ETHYLBENZENE

As the counterparts of benzene, may have an acute effect on the central nervous system, with depression, narcosis, often preceded by dizziness and associated with headache (Ispesl). Is irritating for skin, conjunctiva and respiratory tract.

Interactive effects

PF270 - ADEPRENE TUBETTO

XYLENE (MIXTURE OF ISOMERS)

Intake of alcohol interferes with the metabolism of the substance, inhibiting it. Ethanol consumption (0.8 g/kg) before a 4-hour exposure to xylene vapours (145 and 280 ppm) causes a 50% reduction in the excretion of methyl hippuric acid, whereas the concentration of xylenes in the blood increases approx. 1.5-2 times. At the same time there is an increase in the secondary side effects of the ethanol. The metabolism of the xylenes is increased by phenobarbital and 3-methyl-colantrene type enzyme inducers. Aspirin and xylenes mutually inhibit their conjugation with the glycine, which results in a decrease in urinary excretion of methyl hippuric acid. Other industrial products can interfere with the metabolism of xylenes.

ACUTE TOXICITY

ATE (Inhalation) of the mixture:

Not classified (no significant component)

ATE (Oral) of the mixture:

Not classified (no significant component)

ATE (Dermal) of the mixture:

Not classified (no significant component)

XYLENE (MIXTURE OF ISOMERS)

LD50 (Oral) 3523 mg/kg Rat

LD50 (Dermal) 4350 mg/kg Rabbit

LC50 (Inhalation) 26 mg/l/4h Rat

COLOFONIA ESTERIFICATA CON GLICERINA

LD50 (Oral) > 2000 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg RATTO

ETHYLBENZENE

LD50 (Oral) 3500 mg/kg Rat

LD50 (Dermal) 15354 mg/kg Rabbit

LC50 (Inhalation) 17,2 mg/l/4h Rat

FORMALDEHYDE

LD50 (Oral) 100 mg/kg Rat

LD50 (Dermal) 270 mg/kg Rabbit

LC50 (Inhalation) 0,588 mg/l/4h Rat

ACETONE

PF270 - ADEPRENE TUBETTO

LD50 (Oral) 5800 mg/kg ratto

LD50 (Dermal) > 20 ml/kg coniglio

LC50 (Inhalation) 21,09 ppm/8h ratto

BUTANONE

LD50 (Oral) > 2000 mg/kg Ratto

LD50 (Dermal) > 5000 mg/kg Coniglio

LC50 (Inhalation) > 5000 ppm Ratto

ETHYL ACETATE

LD50 (Oral) 4934 mg/kg dw ratto

LD50 (Dermal) > 20000 mg/kg-bw coniglio

Tertiary butyl phenol

LD50 (Oral) 2990 mg/kg

LD50 (Dermal) 2318 mg/kg

Isoalkanes C6 hydrocarbons <5% n-hexane

LD50 (Oral) > 5000 mg/kg Ratto

LD50 (Dermal) > 5 mg/kg Coniglio

LC50 (Inhalation) > 20 mg/l/1h Ratto

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains: ROSIN

GERM CELL MUTAGENICITY

PF270 - ADEPRENE TUBETTO

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

XYLENE (MIXTURE OF ISOMERS)

Classified in Group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC).
The US Environmental Protection Agency (EPA) affirms that "the data is inadequate for an assessment of the carcinogenic potential".

ETHYLBENZENE

Classified in Group 2B (possible human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 2000).
Classified in Group D (not classifiable as a human carcinogen) by the US Environmental Protection Agency (EPA) - (US EPA file on-line 2014).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class Viscosity: 3000 C.p.s a 20 C°

SECTION 12. Ecological information

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity

ACETONE

LC50 - for Fish 8120 mg/l/96h Pimephales promelas

EC50 - for Crustacea 8800 mg/l/48h Daphnia

EC50 - for Algae / Aquatic Plants 530 mg/l/72h Alga

BUTANONE

LC50 - for Fish 2993 mg/l/96h Pimephales promelas

EC50 - for Crustacea 308 mg/l/48h Daphnia magna

EC50 - for Algae / Aquatic Plants 2029 mg/l/72h Scenedesmus subspicatus

ETHYL ACETATE

PF270 - ADEPRENE TUBETTO

| | |
|---|------------------------------------|
| LC50 - for Fish | 230 mg/l/96h Pimephales promelas |
| EC50 - for Crustacea | 165 mg/l/48h Daphnia magna |
| Chronic NOEC for Crustacea | 2,4 mg/l Daphnia pulex |
| Chronic NOEC for Algae / Aquatic Plants | > 100 mg/l Scenedesmus subspicatus |

ZINC OXIDE

| | |
|---|--|
| LC50 - for Fish | 1,1 mg/l/96h Oncorhynchus mykiss |
| EC50 - for Crustacea | 1,7 mg/l/48h Daphnia magna |
| EC50 - for Algae / Aquatic Plants | 0,14 mg/l/72h Pseudokirchnerella subcapitata |
| Chronic NOEC for Fish | 0,53 mg/l |
| Chronic NOEC for Algae / Aquatic Plants | 0,024 mg/l |

Tertiary butyl phenol

| | |
|-----------------------------------|--------------|
| LC50 - for Fish | 5,1 mg/l/96h |
| EC50 - for Crustacea | 3,9 mg/l/48h |
| EC50 - for Algae / Aquatic Plants | 14 mg/l/72h |
| LC10 for Fish | 0,1 mg/l/10d |

12.2. Persistence and degradability

The paraffinic hydrocarbons fraction may be considered biodegradable in water and in air. They distribute mostly in the air. The small non biodegradable amount which spreads into water tends to accumulate in fish.

XYLENE (MIXTURE OF ISOMERS)

| | |
|--|-----------------|
| Solubility in water | 100 - 1000 mg/l |
| Degradability: information not available | |

ROSIN

| | |
|---------------------|----------------|
| Solubility in water | 0,1 - 100 mg/l |
| Rapidly degradable | |

COLOFONIA ESTERIFICATA CON GLICERINA

| | |
|---------------------|----------------|
| Solubility in water | 0,1 - 100 mg/l |
| Rapidly degradable | |

ETHYLBENZENE

| | |
|---------------------|-------------------|
| Solubility in water | 1000 - 10000 mg/l |
| Rapidly degradable | |

FORMALDEHYDE

| | |
|---------------------|------------|
| Solubility in water | 55000 mg/l |
| Rapidly degradable | |

ACETONE

Rapidly degradable

PF270 - ADEPRENE TUBETTO

BUTANONE

Rapidly degradable

ETHYL ACETATE

Solubility in water > 10000 mg/l

Rapidly degradable

ZINC OXIDE

Solubility in water 2,9 mg/l

NOT rapidly degradable

12.3. Bioaccumulative potential

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: n-octanol/water 3,12

BCF 25,9

ROSIN

Partition coefficient: n-octanol/water 3

BCF 56,23

COLOFONIA ESTERIFICATA CON GLICERINA

Partition coefficient: n-octanol/water 3

BCF 56,23

ETHYLBENZENE

Partition coefficient: n-octanol/water 3,6

FORMALDEHYDE

Partition coefficient: n-octanol/water 0,35

BCF < 1

ACETONE

Partition coefficient: n-octanol/water -0,23

BCF 3

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68

BCF 30

ZINC OXIDE

BCF > 175

12.4. Mobility in soil

PF270 - ADEPRENE TUBETTO

XYLENE (MIXTURE OF ISOMERS)

Partition coefficient: soil/water 2,73

ROSIN

Partition coefficient: soil/water 3,7289

COLOFONIA ESTERIFICATA CON
GLICERINA

Partition coefficient: soil/water 3,7289

FORMALDEHYDE

Partition coefficient: soil/water 1,202

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information**14.1. UN number**

ADR / RID, IMDG, 1133
IATA:

14.2. UN proper shipping name

ADR / RID: ADHESIVES
IMDG: ADHESIVES
IATA: ADHESIVES

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3



PF270 - ADEPRENE TUBETTO

IMDG: Class: 3 Label: 3



IATA: Class: 3 Label: 3

**14.4. Packing group**ADR / RID, IMDG, II
IATA:**14.5. Environmental hazards**

ADR / RID: NO

IMDG: NO

IATA: NO

14.6. Special precautions for user

| | | | |
|------------|-------------------------|-------------------------|--------------------------------|
| ADR / RID: | HIN - Kemler: 33 | Limited Quantities: 5 L | Tunnel restriction code: (D/E) |
| | Special Provision: 640C | | |
| IMDG: | EMS: F-E, S-D | Limited Quantities: 5 L | |
| IATA: | Cargo: | Maximum quantity: 60 L | Packaging instructions: 364 |
| | Pass.: | Maximum quantity: 5 L | Packaging instructions: 353 |
| | Special Instructions: | A3 | |

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Information not relevant

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Seveso Category - Directive 2012/18/EC: P5c

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

| | | |
|-------|----|--|
| Point | 72 | FORMALDEHYDE Reg. no.: 01- 2119488953-20 |
|-------|----|--|

Substances in Candidate List (Art. 59 REACH)

Tertiary butyl phenol

Reg. no.: 01-2119489419-21

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

BUTANONE

ETHYL ACETATE

ACETONE

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

| | |
|---------------------|------------------------------------|
| Flam. Liq. 2 | Flammable liquid, category 2 |
| Flam. Liq. 3 | Flammable liquid, category 3 |
| Carc. 1B | Carcinogenicity, category 1B |
| Muta. 2 | Germ cell mutagenicity, category 2 |
| Repr. 2 | Reproductive toxicity, category 2 |
| Acute Tox. 3 | Acute toxicity, category 3 |
| Acute Tox. 4 | Acute toxicity, category 4 |
| Asp. Tox. 1 | Aspiration hazard, category 1 |

PF270 - ADEPRENE TUBETTO

| | |
|--------------------------|--|
| STOT RE 2 | Specific target organ toxicity - repeated exposure, category 2 |
| Skin Corr. 1B | Skin corrosion, category 1B |
| Eye Dam. 1 | Serious eye damage, category 1 |
| Eye Irrit. 2 | Eye irritation, category 2 |
| Skin Irrit. 2 | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| Skin Sens. 1 | Skin sensitization, category 1 |
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute toxicity, category 1 |
| Aquatic Chronic 1 | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H350 | May cause cancer. |
| H341 | Suspected of causing genetic defects. |
| H361f | Suspected of damaging fertility. |
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H331 | Toxic if inhaled. |
| H312 | Harmful in contact with skin. |
| H332 | Harmful if inhaled. |
| H304 | May be fatal if swallowed and enters airways. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization

PF270 - ADEPRENE TUBETTO

- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

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 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
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 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
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 16. Regulation (EU) 2019/521 (XII Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)
 - Patty - Industrial Hygiene and Toxicology
 - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
 - IFA GESTIS website
 - ECHA website
 - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

09.