

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878

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

1.1. Product identifier  
Product name PLT 6 WHITE 2: 60 BN,  
UFI : HEC2-P0KH-9005-7K8H

1.2. Relevant identified uses of the substance or mixture and uses advised against  
Intended use Pad printing ink

1.3. Details of the supplier of the safety data sheet  
Name COMEC ITALIA SRL  
Full address Piazzale del lavoro 149  
District and Country 21044 Cavarina (VA)  
ITALIA  
Tel. +39 0331 219516  
Fax +39 0331 216161  
  
e-mail address of the competent person  
responsible for the Safety Data Sheet info@comec-italia.it  
Supplier: Edgardo Baggini

1.4. Emergency telephone number  
For urgent inquiries refer to  
Centro Antiveleni di Milano 02 66101029  
(Niguarda Ca Granda - Milano)  
Centro Antiveleni di Pavia 0382 24444  
(Fondazione Maugeri - Pavia)  
Centro Antiveleni di Bergamo 800 883300  
(Papa Giovanni XXIII - Bergamo)  
Centro Antiveleni di Verona 800 011858  
(AOUI - Verona)  
Centro Antiveleni di Firenze 055 7947819  
(Careggi - Firenze)  
Centro Antiveleni di Roma 06 3054343  
(Agostino Gemelli - Roma)  
Centro Antiveleni di Roma 06 49978000  
(Umberto I - Roma)  
Centro Antiveleni di Roma 06 68593726  
(Ospedale pediatrico Bambino Gesù - Roma)  
Centro Antiveleni di Napoli 081 5453333  
(Antonio Cardarelli - Napoli)  
Centro Antiveleni di Foggia 800 183459  
(Azienda ospedaliera universitaria - Foggia)

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 2020/878. 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 3                                       | H226 | Flammable liquid and vapour.                         |
| Reproductive toxicity, category 2                                  | H361 | Suspected of damaging fertility or the unborn child. |
| Aspiration hazard, category 1                                      | H304 | May be fatal if swallowed and enters airways.        |
| Serious eye damage, category 1                                     | H318 | Causes serious eye damage.                           |
| Skin irritation, category 2                                        | H315 | Causes skin irritation.                              |
| Specific target organ toxicity - single exposure, category 3       | H335 | May cause respiratory 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:

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>H226</b>               | Flammable liquid and vapour.                                                                                                     |
| <b>H361</b>               | Suspected of damaging fertility or the unborn child.                                                                             |
| <b>H304</b>               | May be fatal if swallowed and enters airways.                                                                                    |
| <b>H318</b>               | Causes serious eye damage.                                                                                                       |
| <b>H315</b>               | Causes skin irritation.                                                                                                          |
| <b>H335</b>               | May cause respiratory irritation.                                                                                                |
| <b>H336</b>               | May cause drowsiness or dizziness.                                                                                               |
| <b>H412</b>               | Harmful to aquatic life with long lasting effects.                                                                               |
| Precautionary statements: |                                                                                                                                  |
| <b>P210</b>               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| <b>P331</b>               | Do NOT induce vomiting.                                                                                                          |
| <b>P305+P351+P338</b>     | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| <b>P280</b>               | Wear protective gloves/ protective clothing / eye protection / face protection.                                                  |

**P310** Immediately call a POISON CENTER or a doctor.

**P370+P378** In case of fire: use chemical powder, CO2 or dry send to extinguish.

**Contains:** DIACETONE ALCOHOL  
AROMATIC HYDROCARBONS, C9  
CYCLOHEXANONE  
2-METHOXY-1-METHYLETHYL ACETATE

2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

| Identification                   | x = Conc. %   | Classification (EC) 1272/2008 (CLP)                                                                                                                                     |
|----------------------------------|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TITANIUM DIOXIDE</b>          |               |                                                                                                                                                                         |
| INDEX -                          | 32,5 ≤ x < 35 |                                                                                                                                                                         |
| EC 236-675-5                     |               |                                                                                                                                                                         |
| CAS 13463-67-7                   |               |                                                                                                                                                                         |
| <b>CYCLOHEXANONE</b>             |               |                                                                                                                                                                         |
| INDEX 606-010-00-7               | 12 ≤ x < 13,5 | Flam. Liq. 3 H226, Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335                                         |
| EC 203-631-1                     |               | LD50 Oral: 1890 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l                                                                                          |
| CAS 108-94-1                     |               |                                                                                                                                                                         |
| REACH Reg. 01-2119453616-35-xxxx |               |                                                                                                                                                                         |
| <b>AROMATIC HYDROCARBONS, C9</b> |               |                                                                                                                                                                         |
| INDEX -                          | 10,5 ≤ x < 12 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P |
| EC 918-668-5                     |               |                                                                                                                                                                         |
| CAS -                            |               |                                                                                                                                                                         |
| REACH Reg. 01-2119455851-35      |               |                                                                                                                                                                         |
| <b>DIACETONE ALCOHOL</b>         |               |                                                                                                                                                                         |
| INDEX 603-016-00-1               | 10,5 ≤ x < 12 | Flam. Liq. 3 H226, Repr. 2 H361, Eye Irrit. 2 H319, STOT SE 3 H335                                                                                                      |
| EC 204-626-7                     |               |                                                                                                                                                                         |

|                       |                                                                                  |
|-----------------------|----------------------------------------------------------------------------------|
| COMEC ITALIA SRL      | Revision nr. 5<br>Dated 20/01/2025                                               |
| PLT 6 WHITE 2: 60 BN, | Printed on 21/01/2025<br>Page n. 4/23<br>Replaced revision:4 (Dated: 01/07/2024) |

CAS 123-42-2  
REACH Reg. 01-2119473975-21xxxx  
**2-METHOXY-1-METHYLETHYL ACETATE**  
INDEX 607-195-00-7                      10,5 ≤ x < 12                      Flam. Liq. 3 H226, STOT SE 3 H336  
EC 203-603-9  
CAS 108-65-6  
REACH Reg. 01-2119475791-29-xxxx  
**N-BUTYL ACETATE**  
INDEX 607-025-00-1                      0,05 ≤ x < 0,07                      Flam. Liq. 3 H226, STOT SE 3 H336, EUH066  
EC 204-658-1  
CAS 123-86-4  
REACH Reg. 01-2119485493-29

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

In case of doubt or in the presence of symptoms contact a doctor and show him this document.  
In case of more severe symptoms, ask for immediate medical aid.  
EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.  
SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.  
INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.  
INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

Specific information on symptoms and effects caused by the product are unknown.  
DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

Immediately call a POISON CENTER or a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

|                       |                                         |
|-----------------------|-----------------------------------------|
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|                       | Page n. 5/23                            |
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**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. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. 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.

2-METHOXY-1-METHYLETHYL ACETATE  
Store in an inert atmosphere, sheletered from moisture because it hydrolises easily.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

|     |                 |                                                                                                                                                                                                                                                                                            |
|-----|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                                                                                             |
| CZE | Česká Republika | NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci                                                                                                                                                  |
| DEU | Deutschland     | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                                                                                              |
| DNK | Danmark         | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                                                                                                      |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                                                                                                     |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                         |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                        |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                    |
| NLD | Nederland       | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit                                                                                                                      |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos    |
| POL | Polska          | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                                        |
| ROU | România         | Hotărârea nr. 53/2021 pentru modificarea hotărârii guvernului nr. 1.218/2006, precum și pentru modificarea și completarea hotărârii guvernului nr. 1.093/2006                                                                                                                              |
| SWE | Sverige         | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                            |
| TUR | Türkiye         | Kimyasal Maddelerde Çalışmalarda Sağlık ve Güvenlik Önlemleri Hakkında Yönetmelik 12.08.2013 / 28733; 20.10.2023 / 32345.                                                                                                                                                                  |
| GBR | United Kingdom  | EH40/2005 Workplace exposure limits (Fourth Edition 2020)                                                                                                                                                                                                                                  |
| EU  | OEL EU          | Directive (EU) 2022/431; 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 2023                                                                                                                                                                                                                                                                                 |

| TITANIUM DIOXIDE      |         |        |     |            |     |                        |
|-----------------------|---------|--------|-----|------------|-----|------------------------|
| Threshold Limit Value |         |        |     |            |     |                        |
| Type                  | Country | TWA/8h |     | STEL/15min |     | Remarks / Observations |
|                       |         | mg/m3  | ppm | mg/m3      | ppm |                        |
| TLV                   | BGR     | 10     |     |            |     | RESP                   |

|                                                |             |                      |               |                  |                        |                                         |               |                  |
|------------------------------------------------|-------------|----------------------|---------------|------------------|------------------------|-----------------------------------------|---------------|------------------|
| COMEC ITALIA SRL                               |             |                      |               |                  |                        | Revision nr. 5                          |               |                  |
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|                                                |             |                      |               |                  |                        | Page n. 7/23                            |               |                  |
|                                                |             |                      |               |                  |                        | Replaced revision:4 (Dated: 01/07/2024) |               |                  |
|                                                |             |                      |               |                  |                        |                                         |               |                  |
| MAK                                            | DEU         | 0,3                  | 2,4           |                  | RESP                   | Hinweis                                 |               |                  |
| TLV                                            | DNK         | 6                    |               |                  |                        | Som Ti                                  |               |                  |
| VLA                                            | ESP         | 10                   |               |                  |                        |                                         |               |                  |
| VLEP                                           | FRA         | 10                   |               |                  |                        |                                         |               |                  |
| NDS/NDSch                                      | POL         | 10                   |               |                  | INHAL                  |                                         |               |                  |
| TLV                                            | ROU         | 10                   | 15            |                  |                        |                                         |               |                  |
| NGV/KGV                                        | SWE         | 5                    |               |                  |                        | Totaldamm                               |               |                  |
| WEL                                            | GBR         | 10                   |               |                  | INHAL                  |                                         |               |                  |
| WEL                                            | GBR         | 4                    |               |                  | RESP                   |                                         |               |                  |
| TLV-ACGIH                                      |             | 0,2                  |               |                  | RESP                   |                                         |               |                  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                        |                                         |               |                  |
| Normal value in fresh water                    |             |                      | 0,127         |                  | mg/l                   |                                         |               |                  |
| Normal value in marine water                   |             |                      | 1             |                  | mg/l                   |                                         |               |                  |
| Normal value for fresh water sediment          |             |                      | 1000          |                  | mg/kg                  |                                         |               |                  |
| Normal value for marine water sediment         |             |                      | 100           |                  | mg/kg                  |                                         |               |                  |
| Normal value for water, intermittent release   |             |                      | 0,61          |                  | mg/l                   |                                         |               |                  |
| Normal value of STP microorganisms             |             |                      | 100           |                  | mg/l                   |                                         |               |                  |
| Normal value for the terrestrial compartment   |             |                      | 100           |                  | mg/kg                  |                                         |               |                  |
| 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                                           |             |                      |               | 700 mg/m3        |                        |                                         |               |                  |
| Inhalation                                     |             |                      |               |                  |                        |                                         |               | 10 mg/m3         |
| CYCLOHEXANONE                                  |             |                      |               |                  |                        |                                         |               |                  |
| Threshold Limit Value                          |             |                      |               |                  |                        |                                         |               |                  |
| Type                                           | Country     | TWA/8h               | STEL/15min    |                  | Remarks / Observations |                                         |               |                  |
|                                                |             | mg/m3                | ppm           | mg/m3            | ppm                    |                                         |               |                  |
| TLV                                            | BGR         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| TLV                                            | CZE         | 40                   | 9,8           | 80               | 196                    | SKIN                                    |               |                  |
| AGW                                            | DEU         | 80                   | 20            | 80               | 20                     | SKIN                                    |               |                  |
| TLV                                            | DNK         | 41                   | 10            | 81,6             | 20                     | SKIN E                                  |               |                  |
| VLA                                            | ESP         | 41                   | 10            | 82               | 20                     | SKIN                                    |               |                  |
| VLEP                                           | FRA         | 40,8                 | 10            | 81,6             | 20                     |                                         |               |                  |
| AK                                             | HUN         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| VLEP                                           | ITA         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| TGG                                            | NLD         |                      |               | 50               |                        | SKIN                                    |               |                  |
| VLE                                            | PRT         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| NDS/NDSch                                      | POL         | 40                   |               | 80               |                        | SKIN                                    |               |                  |
| TLV                                            | ROU         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| NGV/KGV                                        | SWE         | 41                   | 10            | 81               | 20                     | SKIN                                    |               |                  |
| ESD                                            | TUR         | 40,8                 | 10            | 81,6             | 20                     | SKIN                                    |               |                  |
| WEL                                            | GBR         | 41                   | 10            | 82               | 20                     | SKIN                                    |               |                  |
|                                                |             |                      |               |                  |                        |                                         |               |                  |

|                                                |                      |                |               |                    |                        |                                         |               |                  |
|------------------------------------------------|----------------------|----------------|---------------|--------------------|------------------------|-----------------------------------------|---------------|------------------|
| COMEC ITALIA SRL                               |                      |                |               |                    |                        | Revision nr. 5                          |               |                  |
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|                                                |                      |                |               |                    |                        | Page n. 8/23                            |               |                  |
|                                                |                      |                |               |                    |                        | Replaced revision:4 (Dated: 01/07/2024) |               |                  |
|                                                |                      |                |               |                    |                        |                                         |               |                  |
| OEL                                            | EU                   | 40,8           | 10            | 81,6               | 20                     | SKIN                                    |               |                  |
| TLV-ACGIH                                      |                      | 80             | 20            | 201                | 50                     | SKIN                                    |               |                  |
| 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          |                      |                |               | 0,512              | mg/kg                  |                                         |               |                  |
| Normal value for marine water sediment         |                      |                |               | 0,0512             | mg/kg                  |                                         |               |                  |
| Normal value for water, intermittent release   |                      |                |               | 0,329              | mg/l                   |                                         |               |                  |
| Normal value of STP microorganisms             |                      |                |               | 10                 | mg/l                   |                                         |               |                  |
| Normal value for the terrestrial compartment   |                      |                |               | 0,0435             | mg/kg                  |                                         |               |                  |
| 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                                           |                      |                |               | 1,5 mg/kg bw/d     |                        |                                         |               |                  |
| Inhalation                                     |                      |                | VND           | 10 mg/m3           |                        |                                         | VND           | 40 mg/m3         |
| Skin                                           |                      |                | VND           | 1 mg/kg bw/d       |                        |                                         | VND           | 4 mg/kg bw/d     |
|                                                |                      |                |               |                    |                        |                                         |               |                  |
| AROMATIC HYDROCARBONS, C9                      |                      |                |               |                    |                        |                                         |               |                  |
| Threshold Limit Value                          |                      |                |               |                    |                        |                                         |               |                  |
| Type                                           | Country              | TWA/8h         | STEL/15min    |                    | Remarks / Observations |                                         |               |                  |
|                                                |                      | mg/m3          | ppm           | mg/m3              | ppm                    |                                         |               |                  |
| VLEP                                           | ITA                  | 100            | 20            |                    |                        | 1,2,3 trimetilbenzene                   |               |                  |
| OEL                                            | EU                   | 100            | 20            |                    |                        | 1,2,3 trimetilbenzene                   |               |                  |
| TLV-ACGIH                                      |                      |                | 25            |                    |                        | 1,2,3 trimetilbenzene                   |               |                  |
| 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                                           |                      |                | VND           | 11 mg/kg           |                        |                                         |               | 11 mg/kg bw/d    |
| Inhalation                                     |                      |                | VND           | 32 mg/m3           |                        |                                         | VND           | 150 mg/m3        |
| Skin                                           |                      |                | VND           | 11 mg/kg           |                        |                                         | VND           | 25 mg/kg         |
|                                                |                      |                |               |                    |                        |                                         |               |                  |
| DIACETONE ALCOHOL                              |                      |                |               |                    |                        |                                         |               |                  |
| Threshold Limit Value                          |                      |                |               |                    |                        |                                         |               |                  |
| Type                                           | Country              | TWA/8h         | STEL/15min    |                    | Remarks / Observations |                                         |               |                  |
|                                                |                      | mg/m3          | ppm           | mg/m3              | ppm                    |                                         |               |                  |
| TLV                                            | CZE                  | 200            | 41,4          | 300                | 62,1                   |                                         |               |                  |
| AGW                                            | DEU                  | 96             | 20            | 192                | 40                     | SKIN                                    |               |                  |
| MAK                                            | DEU                  | 96             | 20            | 192                | 40                     | SKIN                                    |               |                  |
| TLV                                            | DNK                  | 240            | 50            |                    |                        |                                         |               |                  |
| VLA                                            | ESP                  | 241            | 50            |                    |                        |                                         |               |                  |
| VLEP                                           | FRA                  | 240            | 50            |                    |                        |                                         |               |                  |
| TGG                                            | NLD                  | 120            |               |                    |                        | SKIN                                    |               |                  |
| NDS/NDSch                                      | POL                  | 240            |               |                    |                        |                                         |               |                  |
|                                                |                      |                |               |                    |                        |                                         |               |                  |

|                                                |             |                      |               |                  |                        |                                         |               |                  |  |
|------------------------------------------------|-------------|----------------------|---------------|------------------|------------------------|-----------------------------------------|---------------|------------------|--|
| COMEC ITALIA SRL                               |             |                      |               |                  |                        | Revision nr. 5                          |               |                  |  |
| PLT 6 WHITE 2: 60 BN,                          |             |                      |               |                  |                        | Dated 20/01/2025                        |               |                  |  |
|                                                |             |                      |               |                  |                        | Printed on 21/01/2025                   |               |                  |  |
|                                                |             |                      |               |                  |                        | Page n. 9/23                            |               |                  |  |
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|                                                |             |                      |               |                  |                        |                                         |               |                  |  |
| TLV                                            | ROU         | 150                  | 32            | 250              | 53                     |                                         |               |                  |  |
| NGV/KGV                                        | SWE         | 120                  | 25            | 240 (C)          | 50 (C)                 |                                         |               |                  |  |
| ESD                                            | TUR         | 240                  | 50            |                  |                        |                                         |               |                  |  |
| WEL                                            | GBR         | 241                  | 50            | 362              | 75                     |                                         |               |                  |  |
| TLV-ACGIH                                      |             | 238                  | 50            |                  |                        |                                         |               |                  |  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                        |                                         |               |                  |  |
| Normal value in fresh water                    |             |                      |               | 2                | mg/l                   |                                         |               |                  |  |
| Normal value in marine water                   |             |                      |               | 0,2              | mg/l                   |                                         |               |                  |  |
| Normal value for fresh water sediment          |             |                      |               | 9,06             | mg/kg                  |                                         |               |                  |  |
| Normal value for marine water sediment         |             |                      |               | 0,91             | mg/kg                  |                                         |               |                  |  |
| Normal value for water, intermittent release   |             |                      |               | 1                | mg/l                   |                                         |               |                  |  |
| Normal value of STP microorganisms             |             |                      |               | 82               | mg/l                   |                                         |               |                  |  |
| Normal value for the terrestrial compartment   |             |                      |               | 0,63             | mg/kg                  |                                         |               |                  |  |
| 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                                           |             |                      |               | 3,4 mg/kg        |                        |                                         |               |                  |  |
| Inhalation                                     |             |                      |               | 11,8 mg/m3       |                        |                                         |               | 66,4 mg/m3       |  |
| Skin                                           |             |                      |               | 3,4 mg/kg        |                        |                                         |               | 9,4 mg/kg        |  |
| 2-METHOXY-1-METHYLETHYL ACETATE                |             |                      |               |                  |                        |                                         |               |                  |  |
| Threshold Limit Value                          |             |                      |               |                  |                        |                                         |               |                  |  |
| Type                                           | Country     | TWA/8h               |               | STEL/15min       | Remarks / Observations |                                         |               |                  |  |
|                                                |             | mg/m3                | ppm           | mg/m3            | ppm                    |                                         |               |                  |  |
| TLV                                            | BGR         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| TLV                                            | CZE         | 270                  | 49,14         | 550              | 100,1                  | SKIN                                    |               |                  |  |
| AGW                                            | DEU         | 270                  | 50            | 270              | 50                     |                                         |               |                  |  |
| MAK                                            | DEU         | 270                  | 50            | 270              | 50                     |                                         |               |                  |  |
| TLV                                            | DNK         | 275                  | 50            | 550              | 100                    | SKIN                                    | E             |                  |  |
| VLA                                            | ESP         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| VLEP                                           | FRA         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| VLEP                                           | ITA         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| TGG                                            | NLD         | 550                  |               |                  |                        |                                         |               |                  |  |
| VLE                                            | PRT         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| NDS/NDSch                                      | POL         | 260                  |               | 520              |                        | SKIN                                    |               |                  |  |
| TLV                                            | ROU         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| NGV/KGV                                        | SWE         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| ESD                                            | TUR         | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| WEL                                            | GBR         | 274                  | 50            | 548              | 100                    | SKIN                                    |               |                  |  |
| OEL                                            | EU          | 275                  | 50            | 550              | 100                    | SKIN                                    |               |                  |  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                        |                                         |               |                  |  |
| Normal value in fresh water                    |             |                      |               | 0,635            | mg/l                   |                                         |               |                  |  |
| Normal value in marine water                   |             |                      |               | 0,0635           | mg/l                   |                                         |               |                  |  |
|                                                |             |                      |               |                  |                        |                                         |               |                  |  |

|                                                |             |                      |               |                  |                    |                                         |               |                  |
|------------------------------------------------|-------------|----------------------|---------------|------------------|--------------------|-----------------------------------------|---------------|------------------|
| COMEC ITALIA SRL                               |             |                      |               |                  |                    | Revision nr. 5                          |               |                  |
| PLT 6 WHITE 2: 60 BN,                          |             |                      |               |                  |                    | Dated 20/01/2025                        |               |                  |
|                                                |             |                      |               |                  |                    | Printed on 21/01/2025                   |               |                  |
|                                                |             |                      |               |                  |                    | Page n. 10/23                           |               |                  |
|                                                |             |                      |               |                  |                    | Replaced revision:4 (Dated: 01/07/2024) |               |                  |
|                                                |             |                      |               |                  |                    |                                         |               |                  |
| Normal value for fresh water sediment          |             |                      |               | 3,29             | mg/kg              |                                         |               |                  |
| Normal value for marine water sediment         |             |                      |               | 0,329            | mg/l               |                                         |               |                  |
| Normal value for water, intermittent release   |             |                      |               | 6,35             | mg/l               |                                         |               |                  |
| Normal value of STP microorganisms             |             |                      |               | 100              | mg/l               |                                         |               |                  |
| Normal value for the terrestrial compartment   |             |                      |               | 0,29             | mg/kg              |                                         |               |                  |
| 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                                           |             |                      | VND           | 1,67 mg/kg       |                    |                                         |               |                  |
| Inhalation                                     |             |                      | 33 mg/m3      | 33 mg/m3         | 550 mg/m3          |                                         | VND           | 275 mg/m3        |
| Skin                                           |             |                      | VND           | 54,8 mg/kg       |                    |                                         | VND           | 153,5 mg/kg      |
| N-BUTYL ACETATE                                |             |                      |               |                  |                    |                                         |               |                  |
| Threshold Limit Value                          |             |                      |               |                  |                    |                                         |               |                  |
| Type                                           | Country     | TWA/8h               |               | STEL/15min       |                    | Remarks / Observations                  |               |                  |
|                                                |             | mg/m3                | ppm           | mg/m3            | ppm                |                                         |               |                  |
| TLV                                            | BGR         | 710                  |               | 950              |                    |                                         |               |                  |
| TLV                                            | CZE         | 241                  |               | 723              |                    |                                         |               |                  |
| AGW                                            | DEU         | 300                  | 62            | 600              | 124                |                                         |               |                  |
| MAK                                            | DEU         | 480                  | 100           | 960              | 200                |                                         |               |                  |
| TLV                                            | DNK         | 241                  | 50            | 723              | 150                | E                                       |               |                  |
| VLA                                            | ESP         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| VLEP                                           | FRA         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| VLEP                                           | ITA         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| TGG                                            | NLD         | 150                  |               |                  |                    |                                         |               |                  |
| VLE                                            | PRT         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| NDS/NDSch                                      | POL         | 240                  |               | 720              |                    |                                         |               |                  |
| TLV                                            | ROU         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| NGV/KGV                                        | SWE         | 241                  | 50            | 723 (C)          | 150 (C)            |                                         |               |                  |
| ESD                                            | TUR         | 241                  | 50            | 723              | 150                |                                         |               |                  |
| WEL                                            | GBR         | 724                  | 150           | 966              | 200                |                                         |               |                  |
| OEL                                            | EU          | 241                  | 50            | 723              | 150                |                                         |               |                  |
| TLV-ACGIH                                      |             |                      | 50            |                  | 150                |                                         |               |                  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                    |                                         |               |                  |
| Normal value in fresh water                    |             |                      |               | 0,18             | mg/l               |                                         |               |                  |
| Normal value in marine water                   |             |                      |               | 0,01             | mg/l               |                                         |               |                  |
| Normal value for fresh water sediment          |             |                      |               | 0,98             | mg/kg              |                                         |               |                  |
| Normal value for marine water sediment         |             |                      |               | 0,09             | mg/kg              |                                         |               |                  |
| Normal value for water, intermittent release   |             |                      |               | 0,36             | mg/l               |                                         |               |                  |
| Normal value of STP microorganisms             |             |                      |               | 35,6             | mg/l               |                                         |               |                  |
| Normal value for the terrestrial compartment   |             |                      |               | 0,09             | mg/kg              |                                         |               |                  |
| Health - Derived no-effect level - DNEL / DMEL |             |                      |               |                  |                    |                                         |               |                  |
|                                                |             | Effects on consumers |               |                  | Effects on workers |                                         |               |                  |
| Route of exposure                              | Acute local | Acute systemic       | Chronic local | Chronic          | Acute local        | Acute                                   | Chronic local | Chronic          |
|                                                |             |                      |               |                  |                    |                                         |               |                  |

|                                                |                      |                |               |                          |                        |                       |               |                       |
|------------------------------------------------|----------------------|----------------|---------------|--------------------------|------------------------|-----------------------|---------------|-----------------------|
| Inhalation                                     | 859,7 mg/m3          | 895,7 mg/m3    | 102,34 mg/m3  | systemic<br>102,34 mg/m3 | 960 mg/m3              | systemic<br>960 mg/m3 | 480 mg/m3     | systemic<br>480 mg/m3 |
| BUTAN-1-OL                                     |                      |                |               |                          |                        |                       |               |                       |
| Threshold Limit Value                          |                      |                |               |                          |                        |                       |               |                       |
| Type                                           | Country              | TWA/8h         | STEL/15min    |                          | Remarks / Observations |                       |               |                       |
|                                                |                      | mg/m3          | ppm           | mg/m3                    | ppm                    |                       |               |                       |
| TLV                                            | BGR                  | 100            |               | 150                      |                        |                       |               |                       |
| TLV                                            | CZE                  | 300            | 97,5          | 600                      | 195                    |                       |               |                       |
| AGW                                            | DEU                  | 310            | 100           | 310                      | 100                    |                       |               |                       |
| MAK                                            | DEU                  | 310            | 100           | 310                      | 100                    |                       |               |                       |
| TLV                                            | DNK                  |                |               | 150 (C)                  | 50 (C)                 | SKIN                  |               |                       |
| VLA                                            | ESP                  | 61             | 20            | 154                      | 50                     |                       |               |                       |
| VLEP                                           | FRA                  |                |               | 150                      | 50                     |                       |               |                       |
| TGG                                            | NLD                  |                |               | 45                       |                        |                       |               |                       |
| NDS/NDSch                                      | POL                  | 50             |               | 150                      |                        | SKIN                  |               |                       |
| TLV                                            | ROU                  | 100            | 33            | 200                      | 66                     |                       |               |                       |
| NGV/KGV                                        | SWE                  | 45             | 15            | 90                       | 30                     | SKIN                  |               |                       |
| ESD                                            | TUR                  | 300            | 100           |                          |                        |                       |               |                       |
| WEL                                            | GBR                  |                |               | 154                      | 50                     | SKIN                  |               |                       |
| TLV-ACGIH                                      |                      | 61             | 20            |                          |                        |                       |               |                       |
| Predicted no-effect concentration - PNEC       |                      |                |               |                          |                        |                       |               |                       |
| Normal value in fresh water                    |                      |                |               | 0,082                    | mg/l                   |                       |               |                       |
| Normal value in marine water                   |                      |                |               | 0,0082                   | mg/l                   |                       |               |                       |
| Normal value for fresh water sediment          |                      |                |               | 0,178                    | mg/kg                  |                       |               |                       |
| Normal value for marine water sediment         |                      |                |               | 0,0178                   | mg/kg                  |                       |               |                       |
| Normal value for water, intermittent release   |                      |                |               | 2,25                     | mg/l                   |                       |               |                       |
| Normal value of STP microorganisms             |                      |                |               | 2476                     | mg/l                   |                       |               |                       |
| Normal value for the terrestrial compartment   |                      |                |               | 0,015                    | mg/kg                  |                       |               |                       |
| 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                                           |                      |                | VND           | 3125 mg/kg               |                        |                       |               |                       |
| Inhalation                                     |                      |                | 55 mg/m3      | VND                      |                        |                       | 310 mg/m3     | VND                   |

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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| COMEC ITALIA SRL      | Revision nr. 5<br>Dated 20/01/2025                                                |
| PLT 6 WHITE 2: 60 BN, | Printed on 21/01/2025<br>Page n. 12/23<br>Replaced revision:4 (Dated: 01/07/2024) |

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.  
The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.  
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 ISO 16321).

**RESPIRATORY PROTECTION**  
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. 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).  
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**

| Properties                     | Value                     | Information |
|--------------------------------|---------------------------|-------------|
| Appearance                     | liquid                    |             |
| Colour                         | white                     |             |
| Odour                          | characteristic of solvent |             |
| Melting point / freezing point | not available             |             |
| Initial boiling point          | not available             |             |
| Flammability                   | not available             |             |
| Lower explosive limit          | not available             |             |
| Upper explosive limit          | not available             |             |
| Flash point                    | 23 ≤ T ≤ 60 °C            |             |
| Auto-ignition temperature      | not available             |             |

|                                        |                    |
|----------------------------------------|--------------------|
| Decomposition temperature              | not available      |
| pH                                     | not available      |
| Kinematic viscosity                    | not available      |
| Solubility                             | insoluble in water |
| Partition coefficient: n-octanol/water | not available      |
| Vapour pressure                        | not available      |
| Density and/or relative density        | not available      |
| Relative vapour density                | not available      |
| Particle characteristics               | not applicable     |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Information not available

9.2.2. Other safety characteristics

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

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

CYCLOHEXANONE

Attacks various types of plastic materials.

May condense under the effect of heat to form resinous compounds.

DIACETONE ALCOHOL

Decomposes at temperatures above 90°C/194°F.

2-METHOXY-1-METHYLETHYL ACETATE

Stable in normal conditions of use and storage.

With the air it may slowly develop peroxides that explode with an increase in temperature.

N-BUTYL ACETATE

Decomposes on contact with: water.

10.2. Chemical stability

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| COMEC ITALIA SRL      | Revision nr. 5<br>Dated 20/01/2025                                                |
| PLT 6 WHITE 2: 60 BN, | Printed on 21/01/2025<br>Page n. 14/23<br>Replaced revision:4 (Dated: 01/07/2024) |

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.

CYCLOHEXANONE

Risk of explosion on contact with: hydrogen peroxide,nitric acid,heat,mineral acids.May react violently with: oxidising agents.Forms explosive mixtures with: air.

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

DIACETONE ALCOHOL

Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidising agents,acids.

2-METHOXY-1-METHYLETHYL ACETATE

May react violently with: oxidising substances,strong acids,alkaline metals.

N-BUTYL ACETATE

Risk of explosion on contact with: strong oxidising agents.May react dangerously with: alkaline hydroxides,potassium tert-butoxide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

DIACETONE ALCOHOL

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

N-BUTYL ACETATE

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

10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

Incompatible with: oxidising substances,strong acids,alkaline metals.

N-BUTYL ACETATE

Incompatible with: water,nitrates,strong oxidants,acids,alkalis,zinc.

|                       |                                                                                   |
|-----------------------|-----------------------------------------------------------------------------------|
| COMEC ITALIA SRL      | Revision nr. 5<br>Dated 20/01/2025                                                |
| PLT 6 WHITE 2: 60 BN, | Printed on 21/01/2025<br>Page n. 15/23<br>Replaced revision:4 (Dated: 01/07/2024) |

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.

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 hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

2-METHOXY-1-METHYLETHYL ACETATE  
The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Information on likely routes of exposure

DIACETONE ALCOHOL  
WORKERS: inhalation; contact with the skin.

2-METHOXY-1-METHYLETHYL ACETATE  
WORKERS: inhalation; contact with the skin.

N-BUTYL ACETATE  
WORKERS: inhalation; contact with the skin.

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

DIACETONE ALCOHOL  
Acute toxicity causes irritation of the eyes, nose and throat in humans at 100 ppm (476 mg/kg) and pulmonary disorders at 400 ppm. No chronic effects on humans have been reported. The substance may have a depressive effect on the respiratory centres and cause death from respiratory failure.

2-METHOXY-1-METHYLETHYL ACETATE  
Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies. Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported (INCR, 2010).

N-BUTYL ACETATE  
In humans, the substance's vapours cause irritation of the eyes and nose. In the event of repeated exposure, skin irritation, dermatitis (dryness and cracking of the skin) and keratitis appear.

Interactive effects

N-BUTYL ACETATE  
A case of acute intoxication been reported involving a 33 year old worker while cleaning a tank with a preparation containing xylenes, butyl acetate and ethylene glycol acetate. The person had irritation of the conjunctiva and upper respiratory tract, drowsiness and motor coordination disorders, which disappeared within 5 hours. The symptoms are attributed to poisoning by mixed xylenes and butyl acetate, with a possible synergistic effect responsible for the neurological effects. Cases of vacuolar keratitis are reported in workers exposed to a mixture of butyl acetate and isobutanol vapours, but with uncertainty concerning the responsibility of a particular solvent (INRC, 2011).

ACUTE TOXICITY

ATE (Inhalation - vapours) of the mixture: > 20 mg/l

|                                                                 |  |                                                                                                                                           |
|-----------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|
| COMEC ITALIA SRL                                                |  | Revision nr. 5                                                                                                                            |
|                                                                 |  | Dated 20/01/2025                                                                                                                          |
| PLT 6 WHITE 2: 60 BN,                                           |  | Printed on 21/01/2025                                                                                                                     |
|                                                                 |  | Page n. 16/23                                                                                                                             |
|                                                                 |  | Replaced revision:4 (Dated: 01/07/2024)                                                                                                   |
| ATE (Oral) of the mixture:                                      |  |                                                                                                                                           |
|                                                                 |  | >2000 mg/kg                                                                                                                               |
| ATE (Dermal) of the mixture:                                    |  |                                                                                                                                           |
|                                                                 |  | >2000 mg/kg                                                                                                                               |
| TITANIUM DIOXIDE                                                |  |                                                                                                                                           |
| LD50 (Oral):                                                    |  | > 5000 mg/l Ratto/Rat                                                                                                                     |
| LC50 (Inhalation mists/powders):                                |  | > 6,82 mg/l Ratto/Rat                                                                                                                     |
| Poliuretainsc Resin                                             |  |                                                                                                                                           |
| LD50 (Dermal):                                                  |  | > 2000 mg/kg Ratto / Rat                                                                                                                  |
| LD50 (Oral):                                                    |  | > 5000 mg/kg Ratto / Rat                                                                                                                  |
| CYCLOHEXANONE                                                   |  |                                                                                                                                           |
| ATE (Dermal):                                                   |  | 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture) |
| LD50 (Oral):                                                    |  | 1890 mg/kg Rat                                                                                                                            |
| LC50 (Inhalation vapours):                                      |  | > 6,2 mg/l/4h Rat                                                                                                                         |
| ATE (Inhalation vapours):                                       |  | 11 mg/l estimate from table 3.1.2 of Annex I of the CLP<br>(figure used for calculation of the acute toxicity estimate of the mixture)    |
| AROMATIC HYDROCARBONS, C9                                       |  |                                                                                                                                           |
| LD50 (Dermal):                                                  |  | > 3160 mg/kg Ratto / Rat                                                                                                                  |
| LD50 (Oral):                                                    |  | 3492 mg/kg Ratto / Rat                                                                                                                    |
| LC50 (Inhalation vapours):                                      |  | > 6193 mg/l/4h Ratto / Rat                                                                                                                |
| DIACETONE ALCOHOL                                               |  |                                                                                                                                           |
| LD50 (Dermal):                                                  |  | > 1875 mg/kg Ratto / Rat                                                                                                                  |
| LD50 (Oral):                                                    |  | 3002 mg/kg Rat                                                                                                                            |
| LC50 (Inhalation vapours):                                      |  | > 7,6 mg/l Ratto / Rat                                                                                                                    |
| 2-METHOXY-1-METHYLETHYL ACETATE                                 |  |                                                                                                                                           |
| LD50 (Dermal):                                                  |  | > 5000 mg/kg Coniglio / Rabbit                                                                                                            |
| LD50 (Oral):                                                    |  | 8500 mg/kg Ratto / Rat                                                                                                                    |
| LC50 (Inhalation vapours):                                      |  | 4345 ppm/6h Ratto / Rat                                                                                                                   |
| N-BUTYL ACETATE                                                 |  |                                                                                                                                           |
| LD50 (Dermal):                                                  |  | > 14000 mg/kg Rabbit                                                                                                                      |
| LD50 (Oral):                                                    |  | > 10000 mg/kg Rat                                                                                                                         |
| LC50 (Inhalation vapours):                                      |  | > 21 mg/l/4h Rat                                                                                                                          |
| <u>SKIN CORROSION / IRRITATION</u>                              |  |                                                                                                                                           |
| Causes skin irritation                                          |  |                                                                                                                                           |
| <u>SERIOUS EYE DAMAGE / IRRITATION</u>                          |  |                                                                                                                                           |
| Causes serious eye damage                                       |  |                                                                                                                                           |
| <u>RESPIRATORY OR SKIN SENSITISATION</u>                        |  |                                                                                                                                           |
| Does not meet the classification criteria for this hazard class |  |                                                                                                                                           |
| <u>GERM CELL MUTAGENICITY</u>                                   |  |                                                                                                                                           |
| Does not meet the classification criteria for this hazard class |  |                                                                                                                                           |
| <u>CARCINOGENICITY</u>                                          |  |                                                                                                                                           |
| Does not meet the classification criteria for this hazard class |  |                                                                                                                                           |

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

STOT - SINGLE EXPOSURE

May cause respiratory irritation

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Toxic for aspiration

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

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

12.1. Toxicity

|                                   |                  |                                     |
|-----------------------------------|------------------|-------------------------------------|
| Poliuretanic Resin                |                  |                                     |
| LC50 - for Fish                   | > 100 mg/l/96h   | Danio rerio                         |
| EC50 - for Crustacea              | > 100 mg/l/48h   | Daphnia magna                       |
| AROMATIC HYDROCARBONS, C9         |                  |                                     |
| LC50 - for Fish                   | > 9,2 mg/l/96h   | Oncorhynchus mykiss                 |
| EC50 - for Crustacea              | > 3,2 mg/l/48h   | Daphnia magna                       |
| EC50 - for Algae / Aquatic Plants | > 2,9 mg/l/72h   | Pseudokirchneriella subcapitata     |
| TITANIUM DIOXIDE                  |                  |                                     |
| LC50 - for Fish                   | > 10000 mg/l/96h | Cypridonon variegatus               |
| 2-METHOXY-1-METHYLETHYL ACETATE   |                  |                                     |
| LC50 - for Fish                   | 134 mg/l/96h     | Pesce, Oncorhynchus mykiss OECD 203 |
| EC50 - for Crustacea              | > 500 mg/l/48h   | Daphnia magna                       |
| EC50 - for Algae / Aquatic Plants | > 1000 mg/l/72h  | Selenastrum capricornutum OECD 201  |
| Chronic NOEC for Fish             | 47,5 mg/l        | Oryzias latipes 14 gg OECD 204      |
| Chronic NOEC for Crustacea        | 100 mg/l         | Daphnia magna 21 gg OECD 202        |
| DIACETONE ALCOHOL                 |                  |                                     |

|                                                                                       |  |                                                 |
|---------------------------------------------------------------------------------------|--|-------------------------------------------------|
| COMEC ITALIA SRL                                                                      |  | Revision nr. 5                                  |
|                                                                                       |  | Dated 20/01/2025                                |
| PLT 6 WHITE 2: 60 BN,                                                                 |  | Printed on 21/01/2025                           |
|                                                                                       |  | Page n. 18/23                                   |
|                                                                                       |  | Replaced revision:4 (Dated: 01/07/2024)         |
| LC50 - for Fish                                                                       |  |                                                 |
|                                                                                       |  | > 100 mg/l/96h Oryzias latipes                  |
| EC50 - for Crustacea                                                                  |  |                                                 |
|                                                                                       |  | > 1000 mg/l/48h Daphnia magna                   |
| EC50 - for Algae / Aquatic Plants                                                     |  |                                                 |
|                                                                                       |  | < 1000 mg/l/72h Pseudokirchneriella subcapitata |
| CYCLOHEXANONE                                                                         |  |                                                 |
| LC50 - for Fish                                                                       |  |                                                 |
|                                                                                       |  | 527 mg/l/96h 527 - 732 / Pimephales promelas    |
| EC50 - for Crustacea                                                                  |  |                                                 |
|                                                                                       |  | > 100 mg/l/48h Daphnia magna                    |
| EC50 - for Algae / Aquatic Plants                                                     |  |                                                 |
|                                                                                       |  | > 100 mg/l/72h Scenedesmus subspicatus          |
| N-BUTYL ACETATE                                                                       |  |                                                 |
| LC50 - for Fish                                                                       |  |                                                 |
|                                                                                       |  | 18 mg/l/96h Pimephales promelas                 |
| EC50 - for Crustacea                                                                  |  |                                                 |
|                                                                                       |  | 44 mg/l/48h Daphnia Magna                       |
| EC10 for Algae / Aquatic Plants                                                       |  |                                                 |
|                                                                                       |  | 674,7 mg/l/72h Desmodesmus subspicatus          |
| Chronic NOEC for Crustacea                                                            |  |                                                 |
|                                                                                       |  | 23 mg/l 21d/ Daphnia magna                      |
| 12.2. Persistence and degradability                                                   |  |                                                 |
| Poliuretanic Resin                                                                    |  |                                                 |
| NOT rapidly degradable                                                                |  |                                                 |
| Biodegradazione 1% 28 d Metodo di prova direttiva 92/69/CEE studi su prodotto analogo |  |                                                 |
| AROMATIC HYDROCARBONS, C9                                                             |  |                                                 |
| Rapidly degradable                                                                    |  |                                                 |
| 2-METHOXY-1-METHYLETHYL ACETATE                                                       |  |                                                 |
| Solubility in water                                                                   |  |                                                 |
|                                                                                       |  | > 10000 mg/l                                    |
| Rapidly degradable                                                                    |  |                                                 |
| OECD GI 301F 83% 10 d                                                                 |  |                                                 |
| DIACETONE ALCOHOL                                                                     |  |                                                 |
| Solubility in water                                                                   |  |                                                 |
|                                                                                       |  | 1000 - 10000 mg/l                               |
| Rapidly degradable                                                                    |  |                                                 |
| AFNOR T 90-312 70% 10 d                                                               |  |                                                 |
| CYCLOHEXANONE                                                                         |  |                                                 |
| Solubility in water                                                                   |  |                                                 |
|                                                                                       |  | 86 mg/l                                         |
| Rapidly degradable                                                                    |  |                                                 |
| N-BUTYL ACETATE                                                                       |  |                                                 |
| Solubility in water                                                                   |  |                                                 |
|                                                                                       |  | 5,3 mg/l                                        |
| Rapidly degradable                                                                    |  |                                                 |
| 12.3. Bioaccumulative potential                                                       |  |                                                 |
| 2-METHOXY-1-METHYLETHYL ACETATE                                                       |  |                                                 |
| Partition coefficient: n-octanol/water                                                |  |                                                 |
|                                                                                       |  | 1,2                                             |
| BCF                                                                                   |  |                                                 |
|                                                                                       |  | 100                                             |
| DIACETONE ALCOHOL                                                                     |  |                                                 |
| Partition coefficient: n-octanol/water                                                |  |                                                 |
|                                                                                       |  | -0,09                                           |
| CYCLOHEXANONE                                                                         |  |                                                 |
| Partition coefficient: n-octanol/water                                                |  |                                                 |
|                                                                                       |  | 0,86                                            |

N-BUTYL ACETATE  
Partition coefficient: n-octanol/water 2,3  
BCF 15,3

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE  
Partition coefficient: soil/water 1,7  
  
CYCLOHEXANONE  
Partition coefficient: soil/water 1,18  
  
N-BUTYL ACETATE  
Partition coefficient: soil/water < 3

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 ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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.  
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.  
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 or ID number

ADR / RID, IMDG, IATA: UN 1210

14.2. UN proper shipping name

ADR / RID: PRINTING INK  
IMDG: PRINTING INK  
IATA: PRINTING INK

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3  
IMDG: Class: 3 Label: 3  
IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO  
IMDG: not marine pollutant  
IATA: NO

14.6. Special precautions for user

|            |                             |                             |                                |
|------------|-----------------------------|-----------------------------|--------------------------------|
| ADR / RID: | HIN - Kemler: 30            | Limited Quantities: 5<br>It | Tunnel restriction code: (D/E) |
|            | Special provision: 163, 367 |                             |                                |
| IMDG:      | EMS: F-E, S-D               | Limited Quantities: 5<br>It |                                |
| IATA:      | Cargo:                      | Maximum quantity: 220 L     | Packaging instructions: 366    |
|            | Passengers:                 | Maximum quantity: 60 L      | Packaging instructions: 355    |
|            | Special provision:          | A3, A72, A192               |                                |

14.7. Maritime transport in bulk according to IMO instruments

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/EU: P5c

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

|                            |        |                                                    |
|----------------------------|--------|----------------------------------------------------|
| <u>Product</u>             |        |                                                    |
| Point                      | 3 - 40 |                                                    |
| <u>Contained substance</u> |        |                                                    |
| Point                      | 75     | BUTAN-1-OL REACH Reg.: 01-2119484630-38            |
| Point                      | 75     | DIACETONE ALCOHOL REACH Reg.: 01-2119473975-21xxxx |
| Point                      | 75     | CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx    |
| Point                      | 75     | TITANIUM DIOXIDE                                   |

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 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 not been performed for the preparation/for the substances indicated in section 3.

SECTION 16. Other information

|                       |                                         |
|-----------------------|-----------------------------------------|
| COMEC ITALIA SRL      | Revision nr. 5                          |
|                       | Dated 20/01/2025                        |
| PLT 6 WHITE 2: 60 BN, | Printed on 21/01/2025                   |
|                       | Page n. 22/23                           |
|                       | Replaced revision:4 (Dated: 01/07/2024) |

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

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| Flam. Liq. 3      | Flammable liquid, category 3                                       |
| Repr. 2           | Reproductive toxicity, category 2                                  |
| Acute Tox. 4      | Acute toxicity, category 4                                         |
| Asp. Tox. 1       | Aspiration hazard, category 1                                      |
| 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       |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H226              | Flammable liquid and vapour.                                       |
| H361              | Suspected of damaging fertility or the unborn child.               |
| H302              | Harmful if swallowed.                                              |
| H312              | Harmful in contact with skin.                                      |
| H332              | Harmful if inhaled.                                                |
| H304              | May be fatal if swallowed and enters airways.                      |
| H318              | Causes serious eye damage.                                         |
| H319              | Causes serious eye irritation.                                     |
| H315              | Causes skin irritation.                                            |
| H335              | May cause respiratory irritation.                                  |
| H336              | May cause drowsiness or dizziness.                                 |
| 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
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value

|                              |                                                                                   |
|------------------------------|-----------------------------------------------------------------------------------|
| <b>COMEC ITALIA SRL</b>      | Revision nr. 5<br>Dated 20/01/2025                                                |
| <b>PLT 6 WHITE 2: 60 BN,</b> | Printed on 21/01/2025<br>Page n. 23/23<br>Replaced revision:4 (Dated: 01/07/2024) |

- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  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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  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
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  24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
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  26. Delegated Regulation (UE) 2024/197 (XXI 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:  
02 / 03 / 04 / 07 / 08 / 11 / 13 / 14 / 15.