

# 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  
UFI :

PLT 15 METAL 2: B 75,  
UF14-D0V2-W002-3FDM

### 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  
Full address  
District and Country

COMEC ITALIA SRL  
Piazzale del lavoro 149  
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  
Supplier:

info@comec-italia.it  
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.                     |
| Hazardous to the aquatic environment, acute toxicity, category 1   | H400 | Very toxic to aquatic life.                           |
| Hazardous to the aquatic environment, chronic toxicity, category 1 | H410 | Very toxic 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>H410</b> | Very toxic 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  
Hydrocarbons, C10, aromatics, <1% naphtalene  
CYCLOHEXANONE  
HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC

The product is classified both in acute and long-term aquatic hazard categories: it is possible to use only hazard statement H410 on the label.

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>CYCLOHEXANONE</b>                                   |               |   |
| INDEX 606-010-00-7                                     | 18 ≤ x < 19,5 | 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>COPPER</b>  |               |   |
| INDEX -  | 10 ≤ x < 11,5 | Acute Tox. 4 H302, Eye Irrit. 2 H319, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=1                                     |
| EC 231-159-6   |               | ATE Oral: 500 mg/kg   |
| CAS 7440-50-8  |               |   |
| REACH Reg. 01-2119480154-42                            |               |   |
| <b>DIACETONE ALCOHOL</b>                               |               |   |
| INDEX 603-016-00-1                                     | 8 ≤ x < 9     | Flam. Liq. 3 H226, Repr. 2 H361, Eye Irrit. 2 H319, STOT SE 3 H335  |
| EC 204-626-7   |               |   |
| CAS 123-42-2   |               |   |
| REACH Reg. 01-2119473975-21xxxx                        |               |   |
| <b>Hydrocarbons, C10, aromatics, &lt;1% naphtalene</b> |               |   |

|                       |  |
|-----------------------|--|
| COMEC ITALIA SRL      | Revision nr. 3<br>Dated 26/03/2025   |
| PLT 15 METAL 2: B 75, | Printed on 07/05/2025<br>Page n. 4/27<br>Replaced revision:2 (Dated: 06/12/2022) |

INDEX - 7 ≤ x < 8 Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066  
EC 918-811-1

CAS -  
REACH Reg. 01-2119463583-34-  
xxxx

**2-METHOXY-1-METHYLETHYL  
ACETATE**

INDEX 607-195-00-7 4,5 ≤ x < 5 Flam. Liq. 3 H226, STOT SE 3 H336  
EC 203-603-9  
CAS 108-65-6

REACH Reg. 01-2119475791-29-  
xxxx

**ZINC POWDER  
- ZINC DUST (STABILISED)**

INDEX 030-001-01-9 4 ≤ x < 4,5 Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10  
EC 231-175-3  
CAS 7440-66-6

REACH Reg. 01-2119467174-37

**HYDROCARBONS, C10-C13, n-  
alkanes, isoalkanes, CYCLIC, <2%  
AROMATIC**

INDEX - 2,5 ≤ x < 3 Asp. Tox. 1 H304, EUH066, Classification note according to Annex VI to the  
CLP Regulation: P  
EC 918-481-9  
CAS -

REACH Reg. 01-2119457273-39-  
xxxx

**UOP-L Paste**

INDEX - 1 ≤ x < 1,5 Substance with a community workplace exposure limit.  
EC 930-915-9  
CAS 1318-02-1  
REACH Reg. 01-2119429034-49

**BUTAN-1-OL**

INDEX 603-004-00-6 1 ≤ x < 1,5 Flam. Liq. 3 H226, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315,  
STOT SE 3 H335, STOT SE 3 H336  
EC 200-751-6 ATE Oral: 500 mg/kg  
CAS 71-36-3

REACH Reg. 01-2119484630-38

**AROMATIC HYDROCARBONS, C9**

INDEX - 0,35 ≤ x < 0,37 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

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

|  |   |
|--|---|
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| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 5/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

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.

## **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).

|  |   |
|--|---|
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| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 6/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

## 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, sheltered from moisture because it hydrolyses 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 | NAŘIZENÍ 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 Maddelerle 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   |

| 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                   |
| 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 |                        |

|  |             |                      |               |                  |                        |   |                |                  |
|--|-------------|----------------------|---------------|------------------|------------------------|---|----------------|------------------|
| COMEC ITALIA SRL                               |             |                      |               |                  |                        | Revision nr. 3                          |                |                  |
| PLT 15 METAL 2: B 75,                          |             |                      |               |                  |                        | Dated 26/03/2025                        |                |                  |
|  |             |                      |               |                  |                        | Printed on 07/05/2025                   |                |                  |
|  |             |                      |               |                  |                        | Page n. 8/27                            |                |                  |
|  |             |                      |               |                  |                        | Replaced revision:2 (Dated: 06/12/2022) |                |                  |
|  |             |                      |               |                  |                        |   |                |                  |
| 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     |
| COPPER   |             |                      |               |                  |                        |   |                |                  |
| Threshold Limit Value                          |             |                      |               |                  |                        |   |                |                  |
| Type   | Country     | TWA/8h               | STEL/15min    |                  | Remarks / Observations |   |                |                  |
|  |             | mg/m3                | ppm           | mg/m3            | ppm                    |   |                |                  |
| TLV  | BGR         | 0,1                  |               |                  |                        |   |                |                  |
| TLV  | CZE         | 1                    | 2             |                  | INHAL                  |   |                |                  |
| MAK  | DEU         | 0,01                 | 0,02          |                  | RESP                   |   |                |                  |
| TLV  | DNK         | 1                    |               |                  |                        |   |                |                  |
| VLA  | ESP         | 0,01                 |               |                  | RESP                   |   | Como Cu        |                  |
| VLEP   | FRA         | 1                    | 2             |                  |                        |   |                |                  |
| AK   | HUN         | 0,1                  | 0,2           |                  | Cu-re számítva         |   |                |                  |
| AK   | HUN         | 0,01                 |               |                  | RESP                   |   | Cu-re számítva |                  |
| TGG  | NLD         | 0,1                  |               |                  | INHAL                  |   |                |                  |
| NDS/NDSch                                      | POL         | 0,2                  |               |                  |                        |   |                |                  |
| TLV  | ROU         |                      | 0,2           |                  | Fumuri                 |   |                |                  |
| NGV/KGV  | SWE         | 0,01                 |               |                  | RESP                   |   |                |                  |
| ESD  | TUR         | 0,1                  |               |                  |                        |   |                |                  |
| WEL  | GBR         | 0,2                  |               |                  | As Cu                  |   |                |                  |
| TLV-ACGIH                                      |             | 0,2                  |               |                  |                        |   |                |                  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                        |   |                |                  |
| Normal value in fresh water                    |             | 0,0078               |               | mg/l             |                        |   |                |                  |
| Normal value in marine water                   |             | 0,0052               |               | mg/l             |                        |   |                |                  |
| Normal value for fresh water sediment          |             | 87                   |               | mg/kg            |                        |   |                |                  |
| Normal value for marine water sediment         |             | 676                  |               | mg/kg            |                        |   |                |                  |
| Normal value of STP microorganisms             |             | 0,23                 |               | mg/l             |                        |   |                |                  |
| Normal value for the terrestrial compartment   |             | 65,5                 |               | 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 |
| Inhalation                                     | VND         | 20 mg/m3             |               |                  | VND                    | 20 mg/m3                                |                |                  |
|  |             |                      |               |                  |                        |   |                |                  |



|      |     |           |     |           |     |           |
|------|-----|-----------|-----|-----------|-----|-----------|
| Skin | VND | 273 mg/kg | VND | 273 mg/kg | VND | 137 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            |               |                  |                    |                        |               |                  |
| 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 |                      |                |               |                  |                    |                        |               |                  |
| Route of exposure                              | Effects on consumers |                |               |                  | Effects on workers |                        |               |                  |
|  | Acute local          | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic         | Chronic local | Chronic systemic |
| Oral   | 3,4 mg/kg            |                |               |                  |                    |                        |               |                  |
| Inhalation                                     | 11,8 mg/m3           |                |               |                  | 66,4 mg/m3         |                        |               |                  |
| Skin   | 3,4 mg/kg            |                |               |                  | 9,4 mg/kg          |                        |               |                  |
| DIETHYLENE GLYCOL MONOETHYL ETHER              |                      |                |               |                  |                    |                        |               |                  |
| Threshold Limit Value                          |                      |                |               |                  |                    |                        |               |                  |
| Type   | Country              | TWA/8h         |               | STEL/15min       |                    | Remarks / Observations |               |                  |
|  |                      | mg/m3          | ppm           | mg/m3            | ppm                |                        |               |                  |
| AGW  | DEU                  | 35             | 6             | 70               | 12                 | 11                     |               |                  |
| MAK  | DEU                  | 50             |               | 100              |                    | INHAL                  |               |                  |
| NGV/KGV  | SWE                  | 80             | 15            | 170 (C)          | 30 (C)             | SKIN                   |               |                  |
| Predicted no-effect concentration - PNEC       |                      |                |               |                  |                    |                        |               |                  |
| Normal value in fresh water                    |                      |                |               | 1,98             | mg/l               |                        |               |                  |
| Normal value in marine water                   |                      |                |               | 0,198            | mg/l               |                        |               |                  |

|   |             |                |               |                    |             |   |               |                  |
|---|-------------|----------------|---------------|--------------------|-------------|---|---------------|------------------|
| COMEC ITALIA SRL                                      |             |                |               |                    |             | Revision nr. 3                          |               |                  |
| PLT 15 METAL 2: B 75,                                 |             |                |               |                    |             | Dated 26/03/2025                        |               |                  |
|   |             |                |               |                    |             | Printed on 07/05/2025                   |               |                  |
|   |             |                |               |                    |             | Page n. 10/27                           |               |                  |
|   |             |                |               |                    |             | Replaced revision:2 (Dated: 06/12/2022) |               |                  |
|   |             |                |               |                    |             |   |               |                  |
| Normal value for fresh water sediment                 |             |                |               | 7,32               |             | mg/kg/d                                 |               |                  |
| Normal value for marine water sediment                |             |                |               | 0,732              |             | mg/kg/d                                 |               |                  |
| Normal value of STP microorganisms                    |             |                |               | 500                |             | mg/l                                    |               |                  |
| Normal value for the food chain (secondary poisoning) |             |                |               | 444                |             | mg/kg                                   |               |                  |
| Normal value for the terrestrial compartment          |             |                |               | 0,34               |             | mg/kg/d                                 |               |                  |
| Health - Derived no-effect level - DNEL / DMEL        |             |                |               |                    |             |   |               |                  |
| Effects on consumers                                  |             |                |               | Effects on workers |             |   |               |                  |
| Route of exposure                                     | Acute local | Acute systemic | Chronic local | Chronic systemic   | Acute local | Acute systemic                          | Chronic local | Chronic systemic |
| Oral  |             |                |               | 50 mg/kg bw/d      |             |   |               |                  |
| Inhalation  |             |                | 18 mg/m3      | 37 mg/m3           |             |   | 30 mg/m3      | 61 mg/m3         |
| Skin  |             |                |               | 25 mg/kg bw/d      |             |   |               | 83 mg/kg bw/d    |
| Hydrocarbons, C10, aromatics, <1% naphtalene          |             |                |               |                    |             |   |               |                  |
| 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           | 7,5 mg/kg/d        |             |   |               |                  |
| Inhalation  |             |                | VND           | 32 mg/m3           |             |   | VND           | 151 mg/m3        |
| Skin  |             |                | VND           | 7,5 mg/kg/d        |             |   | VND           | 12,5 mg/kg/d     |
| 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                                    |               |                  |
| Normal value for fresh water sediment                 |             |                |               | 3,29               |             | mg/kg                                   |               |                  |
|   |             |                |               |                    |             |   |               |                  |

|  |             |                |               |                    |             |   |               |                  |
|--|-------------|----------------|---------------|--------------------|-------------|---|---------------|------------------|
| COMEC ITALIA SRL   |             |                |               |                    |             | Revision nr. 3                          |               |                  |
| PLT 15 METAL 2: B 75,  |             |                |               |                    |             | Dated 26/03/2025                        |               |                  |
|  |             |                |               |                    |             | Printed on 07/05/2025                   |               |                  |
|  |             |                |               |                    |             | Page n. 11/27                           |               |                  |
|  |             |                |               |                    |             | Replaced revision:2 (Dated: 06/12/2022) |               |                  |
|  |             |                |               |                    |             |   |               |                  |
| 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      |
| ZINC POWDER  |             |                |               |                    |             |   |               |                  |
| - ZINC DUST (STABILISED)   |             |                |               |                    |             |   |               |                  |
| Threshold Limit Value  |             |                |               |                    |             |   |               |                  |
| Type   | Country     | TWA/8h         |               | STEL/15min         |             | Remarks / Observations                  |               |                  |
|  |             | mg/m3          | ppm           | mg/m3              | ppm         |   |               |                  |
| MAK  | DEU         | 2              |               | 4                  |             | INHAL                                   |               |                  |
| MAK  | DEU         | 0,1            |               | 0,4                |             | RESP                                    |               |                  |
| Predicted no-effect concentration - PNEC                           |             |                |               |                    |             |   |               |                  |
| Normal value in fresh water  |             |                |               | 0,0206             |             | mg/l                                    |               |                  |
| Normal value in marine water                                       |             |                |               | 0,0061             |             | mg/l                                    |               |                  |
| Normal value for fresh water sediment                              |             |                |               | 117,8              |             | mg/kg                                   |               |                  |
| Normal value for marine water sediment                             |             |                |               | 56,5               |             | mg/kg                                   |               |                  |
| Normal value of STP microorganisms                                 |             |                |               | 0,052              |             | mg/l                                    |               |                  |
| Normal value for the terrestrial compartment                       |             |                |               | 35,6               |             | 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           | 0,83 mg/kg         |             |   |               |                  |
| Inhalation   |             |                | VND           | 2,5 mg/m3          |             |   | VND           | 5 mg/m3          |
| Skin   |             |                | VND           | 83 mg/kg           |             |   | VND           | 83 mg/kg         |
| HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC |             |                |               |                    |             |   |               |                  |
| Threshold Limit Value  |             |                |               |                    |             |   |               |                  |
| Type   | Country     | TWA/8h         |               | STEL/15min         |             | Remarks / Observations                  |               |                  |
|  |             | mg/m3          | ppm           | mg/m3              | ppm         |   |               |                  |
| VLEP   | FRA         | 275            | 50            | 550                | 100         | SKIN                                    |               |                  |
| VLEP   | ITA         | 275            | 50            | 550                | 100         | SKIN                                    |               |                  |
| WEL  | GBR         | 274            | 50            | 548                | 100         | SKIN                                    |               |                  |
| OEL  | EU          | 275            | 50            | 550                | 100         | SKIN                                    |               |                  |
| TLV-ACGIH  |             | 1200           | 184           |                    |             |   |               |                  |
| 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 |

|  |             |                      |               |                  |                    |   |               |                  |  |
|--|-------------|----------------------|---------------|------------------|--------------------|---|---------------|------------------|--|
| COMEC ITALIA SRL                               |             |                      |               |                  |                    | Revision nr. 3                          |               |                  |  |
| PLT 15 METAL 2: B 75,                          |             |                      |               |                  |                    | Dated 26/03/2025                        |               |                  |  |
|  |             |                      |               |                  |                    | Printed on 07/05/2025                   |               |                  |  |
|  |             |                      |               |                  |                    | Page n. 12/27                           |               |                  |  |
|  |             |                      |               |                  |                    | Replaced revision:2 (Dated: 06/12/2022) |               |                  |  |
|  |             |                      |               |                  |                    |   |               |                  |  |
| Oral   |             | 300 mg/kg/d          |               |                  |                    |   |               |                  |  |
| Inhalation                                     |             | 900 mg/m3            |               |                  |                    |   |               |                  |  |
| Skin   |             | 300 mg/kg/d          |               |                  |                    |   |               | 300 mg/kg/d      |  |
| UOP-L Paste                                    |             |                      |               |                  |                    |   |               |                  |  |
| Threshold Limit Value                          |             |                      |               |                  |                    |   |               |                  |  |
| Type   | Country     | TWA/8h               |               | STEL/15min       |                    | Remarks / Observations                  |               |                  |  |
|  |             | mg/m3                | ppm           | mg/m3            | ppm                |   |               |                  |  |
| OEL  | EU          | 1                    |               |                  |                    | RESP                                    |               |                  |  |
| 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              |  |
| 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         |

Bis(2-ethylhexyl) adipate

Predicted no-effect concentration - PNEC

|  |        |         |
|--|--------|---------|
| Normal value in fresh water                  | 0,0032 | mg/l    |
| Normal value in marine water                 | 0,0032 | mg/l    |
| Normal value for fresh water sediment        | 15,6   | mg/kg   |
| Normal value for water, intermittent release | 0,0032 | mg/l    |
| Normal value of STP microorganisms           | 35     | mg/l    |
| Normal value for the terrestrial compartment | 0,865  | mg/kg/d |

Health - Derived no-effect level - DNEL / DMEL

Effects on consumers

Effects on workers

|                   |             |                |               |                  |             |                |               |                  |
|-------------------|-------------|----------------|---------------|------------------|-------------|----------------|---------------|------------------|
| Route of exposure | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral              |             | 1,3 mg/kg bw/d |               |                  |             |                |               |                  |
| Inhalation        |             |                |               | 4,4 mg/m3        |             |                |               | 17,8 mg/m3       |
| Skin              |             |                |               | 13 mg/kg bw/d    |             |                |               | 25,5 mg/kg bw/d  |

Phthalic anhydride with less than 0,05% of maleic anhydride

Threshold Limit Value

| Type      | Country | TWA/8h | STEL/15min |       | Remarks / Observations |  |  |  |
|-----------|---------|--------|------------|-------|------------------------|--|--|--|
|           |         | mg/m3  | ppm        | mg/m3 | ppm                    |  |  |  |
| TLV-ACGIH |         | 1      |            |       |                        |  |  |  |

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

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

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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3<br/>Dated 26/03/2025</p>   |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 14/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

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                     | not available  |             |
| Colour                         | not available  |             |
| Odour                          | not available  |             |
| 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                             | not available  |
| 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.

BUTAN-1-OL

Attacks various types of plastic materials.

10.2. Chemical stability

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

|   |  |   |
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| COMEC ITALIA SRL  |  | Revision nr. 3                          |
|   |  | Dated 26/03/2025                        |
| PLT 15 METAL 2: B 75,   |  | Printed on 07/05/2025                   |
|   |  | Page n. 16/27                           |
|   |  | Replaced revision:2 (Dated: 06/12/2022) |
| <b>10.3. Possibility of hazardous reactions</b>   |  |   |
| 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.  |  |   |
| DIACETONE ALCOHOL   |  |   |
| Risk of explosion on contact with: air,sources of heat.May react dangerously with: alkaline metals,amines,oxidising agents,acids.   |  |   |
| DIETHYLENE GLYCOL MONOETHYL ETHER   |  |   |
| Forms explosive mixtures with: air.May react dangerously with: oxidising agents,aluminium.  |  |   |
| 2-METHOXY-1-METHYLETHYL ACETATE   |  |   |
| May react violently with: oxidising substances,strong acids,alkaline metals.  |  |   |
| ZINC POWDER<br>- ZINC DUST (STABILISED)   |  |   |
| Risk of explosion on contact with: ammonium nitrate,ammonium sulphide,barium peroxide,lead nitride,chlorates,chromium trioxide,sodium hydroxide,oxidising agents,performic acid,acids,tetrachloromethane,water.May react dangerously with: alkaline hydroxides,bromine pentafluoride,calcium chloride,fluorine,hexachloroethane,nitrobenzene,potassium dioxide,carbon disulphide,silver.Reacts with: strong acids,strong alkalis.May develop: hydrogen. |  |   |
| BUTAN-1-OL  |  |   |
| Reacts violently developing heat on contact with: aluminium,strong oxidising agents,strong reducing agents,hydrochloric acid.Forms explosive mixtures with: air.  |  |   |
| AROMATIC HYDROCARBONS, C9   |  |   |
| May react with: strong oxidising agents.  |  |   |
| <b>10.4. Conditions to avoid</b>  |  |   |
| 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.  |  |   |
| BUTAN-1-OL  |  |   |
| Avoid exposure to: sources of heat,naked flames.  |  |   |



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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3<br/>Dated 26/03/2025</p>   |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 17/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

#### 10.5. Incompatible materials

2-METHOXY-1-METHYLETHYL ACETATE

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

ZINC POWDER  
- ZINC DUST (STABILISED)

Incompatible with: water, acids, strong alkalis.

#### 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

Hydrocarbons, C10, aromatics, <1% naphthalene  
Specific target organ toxicity (STOT) - single exposure:  
NOAEC > 600 mg / kg Inhalation. Rat

##### 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.

##### 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).

##### Interactive effects

Information not available

|  |   |   |
|--|---|---|
| COMEC ITALIA SRL   |   | Revision nr. 3                          |
|  |   | Dated 26/03/2025                        |
| PLT 15 METAL 2: B 75,  |   | Printed on 07/05/2025                   |
|  |   | Page n. 18/27                           |
|  |   | Replaced revision:2 (Dated: 06/12/2022) |
|  |   |   |
| <b>ACUTE TOXICITY</b>  |   |   |
| ATE (Inhalation - vapours) of the mixture:                                   | > 20 mg/l   |   |
| ATE (Oral) of the mixture:   | >2000 mg/kg   |   |
| ATE (Dermal) of the mixture:   | >2000 mg/kg   |   |
| <b>CYCLOHEXANONE</b>   |   |   |
| 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)    |   |
| <b>COPPER</b>  |   |   |
| ATE (Oral):  | 500 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)  |   |
| <b>DIACETONE ALCOHOL</b>   |   |   |
| LD50 (Dermal):   | > 1875 mg/kg Ratto / Rat  |   |
| LD50 (Oral):   | 3002 mg/kg Rat  |   |
| LC50 (Inhalation vapours):   | > 7,6 mg/l Ratto / Rat  |   |
| <b>DIETHYLENE GLYCOL MONOETHYL ETHER</b>                                     |   |   |
| LD50 (Dermal):   | 9143 mg/kg Coniglio / Rabbit  |   |
| LD50 (Oral):   | 6031 mg/kg Topo / Mouse   |   |
| LC50 (Inhalation vapours):   | 0,02 mg/l/8h Ratto / Rat  |   |
| <b>Hydrocarbons, C10, aromatics, &lt;1% naphtalene</b>                       |   |   |
| LD50 (Dermal):   | > 2000 mg/kg Coniglio / Rabbit  |   |
| LD50 (Oral):   | 6318 mg/kg Ratto / Rat  |   |
| LC50 (Inhalation vapours):   | > 4688 mg/kg/4h Ratto / Rat   |   |
| <b>2-METHOXY-1-METHYLETHYL ACETATE</b>                                       |   |   |
| LD50 (Dermal):   | > 5000 mg/kg Coniglio / Rabbit  |   |
| LD50 (Oral):   | 8500 mg/kg Ratto / Rat  |   |
| LC50 (Inhalation vapours):   | 4345 ppm/6h Ratto / Rat   |   |
| <b>ZINC POWDER</b>   |   |   |
| <b>- ZINC DUST (STABILISED)</b>  |   |   |
| LD50 (Oral):   | > 2000 mg/kg Ratto / Rat  |   |
| LC50 (Inhalation mists/powders):   | 5,41 mg/l/4h Ratto / Rat (4h)   |   |
| <b>HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, &lt;2% AROMATIC</b> |   |   |
| LD50 (Dermal):   | > 2000 mg/kg bw Rat   |   |
| LD50 (Oral):   | > 5000 mg/kg bw Rat   |   |
| LC50 (Inhalation vapours):   | > 5000 mg/m3 8h Rat   |   |
| <b>Dioxide is chemically prepared silicon</b>                                |   |   |
| LC50 (Inhalation mists/powders):   | 5 mg/l/1h   |   |
| <b>BUTAN-1-OL</b>  |   |   |
| LD50 (Dermal):   | 3400 mg/kg Rabbit   |   |
| LD50 (Oral):   | 2290 mg/kg Rat  |   |
| ATE (Oral):  | 500 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)  |   |
| LC50 (Inhalation vapours):   | 17,76 mg/l/4h Rat   |   |
| <b>AROMATIC HYDROCARBONS, C9</b>   |   |   |

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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3<br/>Dated 26/03/2025</p>   |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 19/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

LD50 (Dermal):  
LD50 (Oral):  
LC50 (Inhalation vapours):

> 3160 mg/kg Ratto / Rat  
3492 mg/kg Ratto / Rat  
> 6193 mg/l/4h Ratto / Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

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

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 highly toxic for aquatic organisms. In the long term, it has negative effects on the aquatic environment.

12.1. Toxicity

Hydrocarbons, C10, aromatics, <1%  
naphtalene  
LC50 - for Fish  
EC50 - for Crustacea

> 2 mg/l/96h  
> 3 mg/l/48h Daphnia magna

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|--|--|--|
| COMEC ITALIA SRL   |  | Revision nr. 3                                     |
|  |  | Dated 26/03/2025                                   |
| PLT 15 METAL 2: B 75,  |  | Printed on 07/05/2025                              |
|  |  | Page n. 20/27                                      |
|  |  | Replaced revision:2 (Dated: 06/12/2022)            |
| EC50 - for Algae / Aquatic Plants                                  |  |  |
|  |  | > 1 mg/l/72h                                       |
| HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC |  |  |
| LC50 - for Fish  |  | > 1000 mg/l/96h Oncorhynchus mykiss OECD 203       |
| EC50 - for Crustacea   |  | > 1000 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     |
| ZINC POWDER  |  |  |
| - ZINC DUST (STABILISED)   |  |  |
| LC50 - for Fish  |  | 0,1 mg/l/96h Nothobranchius guentheri              |
| EC50 - for Crustacea   |  | 0,8 mg/l/48h Daphnia magna                         |
| EC50 - for Algae / Aquatic Plants                                  |  | 0,015 mg/l/72h Pseudokirchneriella subcapitata     |
| Chronic NOEC for Fish  |  | 0,44 mg/l 72d                                      |
| DIETHYLENE GLYCOL MONOETHYL ETHER                                  |  |  |
| LC50 - for Fish  |  | 6010 mg/l/96h Pesce OECD 203                       |
| EC50 - for Crustacea   |  | 1982 mg/l/48h Daphnia magna OECD 202               |
| 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              |
| BUTAN-1-OL   |  |  |
| LC50 - for Fish  |  | 1376 mg/l/96h Pimephales promelas                  |
| EC50 - for Crustacea   |  | 1328 mg/l/48h Daphnia magna                        |
| EC50 - for Algae / Aquatic Plants                                  |  | 225 mg/l/96h 96h - Selenastrum capricornutum       |
| DIACETONE ALCOHOL  |  |  |
| 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             |

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| COMEC ITALIA SRL   |   | Revision nr. 3                          |
|  |   | Dated 26/03/2025                        |
| PLT 15 METAL 2: B 75,  |   | Printed on 07/05/2025                   |
|  |   | Page n. 21/27                           |
|  |   | Replaced revision:2 (Dated: 06/12/2022) |
| COPPER   |   |   |
| Chronic NOEC for Fish  | 0,011 mg/l Oncorhynchus mykiss            |   |
| Chronic NOEC for Crustacea   | 0,188 mg/l Daphnia magna                  |   |
| Chronic NOEC for Algae / Aquatic Plants                            | 0,043 mg/l Pseudokirchernella subcapitata |   |
| 12.2. Persistence and degradability                                |   |   |
| Hydrocarbons, C10, aromatics, <1% naphtalene                       |   |   |
| Solubility in water  | immiscibile in H2O mg/l                   |   |
| Rapidly degradable   |   |   |
| HYDROCARBONS, C10-C13, n-alkanes, isoalkanes, CYCLIC, <2% AROMATIC |   |   |
| Rapidly degradable   |   |   |
| AROMATIC HYDROCARBONS, C9  |   |   |
| Rapidly degradable   |   |   |
| ZINC POWDER  |   |   |
| - ZINC DUST (STABILISED)   |   |   |
| Solubility in water  | 0,1 - 100 mg/l                            |   |
| Degradability: information not available                           |   |   |
| DIETHYLENE GLYCOL MONOETHYL ETHER                                  |   |   |
| Solubility in water  | 1000 g/l Completamente solubile           |   |
| Rapidly degradable   |   |   |
| 2-METHOXY-1-METHYLETHYL ACETATE                                    |   |   |
| Solubility in water  | > 10000 mg/l                              |   |
| Rapidly degradable   |   |   |
| OECD GI 301F 83% 10 d  |   |   |
| BUTAN-1-OL   |   |   |
| Solubility in water  | 78 mg/l                                   |   |
| Rapidly degradable   |   |   |
| 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   |   |   |
| COPPER   |   |   |
| Solubility in water  | < 0,1 mg/l                                |   |
| Degradability: information not available                           |   |   |
| Dioxide is chemically prepared silicon                             |   |   |
| Solubility in water  | 1 mg/l                                    |   |
| 12.3. Bioaccumulative potential                                    |   |   |
| DIETHYLENE GLYCOL MONOETHYL ETHER                                  |   |   |
| Partition coefficient: n-octanol/water                             | -0,54 misurato                            |   |
| 2-METHOXY-1-METHYLETHYL ACETATE                                    |   |   |
| Partition coefficient: n-octanol/water                             | 1,2                                       |   |

|  |       |
|--|-------|
| BCF                                    | 100   |
| BUTAN-1-OL                             |       |
| Partition coefficient: n-octanol/water | 1     |
| BCF                                    | 3,16  |
| DIACETONE ALCOHOL                      |       |
| Partition coefficient: n-octanol/water | -0,09 |
| CYCLOHEXANONE                          |       |
| Partition coefficient: n-octanol/water | 0,86  |

12.4. Mobility in soil

|                                      |            |
|--------------------------------------|------------|
| DIETHYLENE GLYCOL MONOETHYL<br>ETHER |            |
| Partition coefficient: soil/water    | 20 stimato |
| 2-METHOXY-1-METHYLETHYL ACETATE      |            |
| Partition coefficient: soil/water    | 1,7        |
| BUTAN-1-OL                           |            |
| Partition coefficient: soil/water    | 0,388      |
| CYCLOHEXANONE                        |            |
| Partition coefficient: soil/water    | 1,18       |

12.5. Results of PBT and vPvB assessment

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

12.6. 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.

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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3<br/>Dated 26/03/2025</p>   |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 23/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

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: 3Label: 3

IMDG:Class: 3Label: 3

IATA:Class: 3Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA:III

14.5. Environmental hazards

ADR / RID:Environmentally Hazardous

IMDG:Marine Pollutant

IATA:NO



For Air transport, environmentally hazardous mark is only mandatory for UN 3077 and UN 3082.

14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 30

Special provision: 163, 367

IMDG:

EMS: F-E, S-D

IATA:

Cargo:

Limited Quantities: 5 It

Limited Quantities: 5 It

Maximum quantity: 220

Tunnel restriction code: (D/E)

Packaging instructions:

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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3<br/>Dated 26/03/2025</p>   |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025<br/>Page n. 24/27<br/>Replaced revision:2 (Dated: 06/12/2022)</p> |

|                           |   |  |
|---------------------------|---|--|
| <p>Passengers:</p>        | <p>L<br/>Maximum<br/>quantity: 60 L</p> | <p>366<br/>Packaging<br/>instructions:<br/>355</p> |
| <p>Special provision:</p> | <p>A3, A72,<br/>A192</p>                |  |

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-E1

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

Product

Point 3 - 40

Contained substance

|       |    |   |
|-------|----|---|
| Point | 75 | Phthalic anhydride with less than 0,05% of maleic anhydride REACH<br>Reg.: 01-2119457017-41 |
| Point | 75 | CYCLOHEXANONE REACH Reg.: 01-2119453616-35-xxxx   |
| Point | 75 | COPPER REACH Reg.: 01-2119480154-42   |
| Point | 75 | DIACETONE ALCOHOL REACH<br>Reg.: 01-2119473975-21xxxx                                       |
| Point | 75 | BUTAN-1-OL REACH Reg.: 01-2119484630-38   |
| Point | 75 | ZINC POWDER<br>- ZINC DUST (STABILISED) REACH<br>Reg.: 01-2119467174-37                     |

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 ≥ than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None



|                              |   |
|------------------------------|---|
| <b>COMEC ITALIA SRL</b>      | Revision nr. 3<br>Dated 26/03/2025  |
| <b>PLT 15 METAL 2: B 75,</b> | Printed on 07/05/2025<br>Page n. 25/27<br>Replaced revision:2 (Dated: 06/12/2022) |

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**

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

|                          |  |
|--------------------------|--|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2   |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2  |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>Aquatic Chronic 2</b> | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H361</b>              | Suspected of damaging fertility or the unborn child.               |
| <b>H302</b>              | Harmful if swallowed.  |
| <b>H312</b>              | Harmful in contact with skin.                                      |
| <b>H332</b>              | Harmful if inhaled.  |
| <b>H304</b>              | May be fatal if swallowed and enters airways.                      |
| <b>H318</b>              | Causes serious eye damage.   |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.  |
| <b>H335</b>              | May cause respiratory irritation.                                  |
| <b>H336</b>              | May cause drowsiness or dizziness.                                 |

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| <p align="center"><b>COMEC ITALIA SRL</b></p>      | <p>Revision nr. 3</p> <p>Dated 26/03/2025</p>  |
| <p align="center"><b>PLT 15 METAL 2: B 75,</b></p> | <p>Printed on 07/05/2025</p> <p>Page n. 26/27</p> <p>Replaced revision:2 (Dated: 06/12/2022)</p> |

|               |   |
|---------------|---|
| <b>H400</b>   | Very toxic to aquatic life.                           |
| <b>H410</b>   | Very toxic to aquatic life with long lasting effects. |
| <b>H411</b>   | Toxic to aquatic life with long lasting effects.      |
| <b>EUH066</b> | 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
- 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

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2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
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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)
23. Delegated Regulation (UE) 2023/707

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|------------------------------|---|
| <b>COMEC ITALIA SRL</b>      | Revision nr. 3<br>Dated 26/03/2025  |
| <b>PLT 15 METAL 2: B 75,</b> | Printed on 07/05/2025<br>Page n. 27/27<br>Replaced revision:2 (Dated: 06/12/2022) |

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- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
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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:  
01 / 02 / 03 / 04 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.