

|                                                                                                                                                                                                                                                     |  |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------------------------|
| COMEC ITALIA SRL                                                                                                                                                                                                                                    |  | Revision nr. 2                          |
| PLT 4: 110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 139 TAC, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD, 165 MT, 165 S, 170, 170 MT, 208-S, |  | Dated 04/02/2025                        |
|                                                                                                                                                                                                                                                     |  | Printed on 04/02/2025                   |
|                                                                                                                                                                                                                                                     |  | Page n. 1/23                            |
|                                                                                                                                                                                                                                                     |  | Replaced revision:1 (Dated: 27/02/2024) |

# Safety Data Sheet

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

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

**1.1. Product identifier**

Product name

PLT 4: EXTRA M,  
110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 139 TAC, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD, 165 MT, 165 S, 170, 170 MT, 208-S,

UFI :

VV73-N0FJ-900H-WTR5

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

Intended use

Pad printing ink.

**1.3. Details of the supplier of the safety data sheet**

Name

COMEC ITALIA SRL

Full address

Piazzale del lavoro 149

District and Country

21044 Cavaria (VA)  
ITALIA

Tel. +39 0331 219516

Fax +39 0331 216161

e-mail address of the competent person

responsible for the Safety Data Sheet

info@comec-italia.it

Supplier:

Edgardo Baggini

**1.4. Emergency telephone number**

For urgent inquiries refer to

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

**SECTION 2. Hazards identification**

**2.1. Classification of the substance or mixture**

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

|                                                                    |      |                                                    |
|--------------------------------------------------------------------|------|----------------------------------------------------|
| Hazard classification and indication:                              |      |                                                    |
| Flammable liquid, category 3                                       | H226 | Flammable liquid and vapour.                       |
| Serious eye damage, category 1                                     | H318 | Causes serious eye damage.                         |
| Specific target organ toxicity - single exposure, category 3       | H336 | May cause drowsiness or dizziness.                 |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412 | Harmful to aquatic life with long lasting effects. |

**2.2. Label elements**

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

Hazard pictograms:



Signal words:                      Danger

Hazard statements:

|                           |                                                                                                                                  |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>H226</b>               | Flammable liquid and vapour.                                                                                                     |
| <b>H318</b>               | Causes serious eye damage.                                                                                                       |
| <b>H336</b>               | May cause drowsiness or dizziness.                                                                                               |
| <b>H412</b>               | Harmful to aquatic life with long lasting effects.                                                                               |
| Precautionary statements: |                                                                                                                                  |
| <b>P210</b>               | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| <b>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.                                                  |
| <b>P310</b>               | Immediately call a POISON CENTER or a doctor.                                                                                    |

P370+P378

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

P261

Avoid breathing dust, gas or vapours.

Contains:

CYCLOHEXANONE  
2-METHOXY-1-METHYLETHYL ACETATE  
Hydrocarbons, C10, aromatics, <1% naphtalene

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

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer  
Reaction product of BPA; possible contamination <0.05%

3.1. Substances

Information not relevant

3.2. Mixtures

Contains:

| Identification                         | x = Conc. %   | Classification (EC) 1272/2008 (CLP)                                                                                             |
|----------------------------------------|---------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>2-METHOXY-1-METHYLETHYL ACETATE</b> |               |                                                                                                                                 |
| INDEX 607-195-00-7                     | 20 ≤ x < 21,5 | Flam. Liq. 3 H226, STOT SE 3 H336                                                                                               |
| EC 203-603-9                           |               |                                                                                                                                 |
| CAS 108-65-6                           |               |                                                                                                                                 |
| REACH Reg. 01-2119475791-29-xxxx       |               |                                                                                                                                 |
| <b>BUTYLGLYCOL ACETATE</b>             |               |                                                                                                                                 |
| INDEX 607-038-00-2                     | 15 ≤ x < 16,5 | Acute Tox. 4 H302, Acute Tox. 4 H312, Acute Tox. 4 H332                                                                         |
| EC 203-933-3                           |               | ATE Oral: 500 mg/kg, ATE Dermal: 1100 mg/kg, ATE Inhalation vapours: 11 mg/l                                                    |
| CAS 112-07-2                           |               |                                                                                                                                 |
| REACH Reg. 01-2119475112-47xxxx        |               |                                                                                                                                 |
| <b>CYCLOHEXANONE</b>                   |               |                                                                                                                                 |
| INDEX 606-010-00-7                     | 4,5 ≤ x < 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                           |               |                                                                                                                                 |

|                                                                                                                                                                                                                                                            |                                         |
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| <b>COMEC ITALIA SRL</b>                                                                                                                                                                                                                                    | Revision nr. 2                          |
|                                                                                                                                                                                                                                                            | Dated 04/02/2025                        |
| <b>PLT 4: 110, 110 HD, 111, 111 HD, 112, 112 HD, 115, 115 HD, 117, 120, 120 HD, 121, 121 HD, 122, 122 HD, 124, 130, 130 HD, 131, 132, 133, 134, 136, 136 HD, 139 TAC, 140, 140 HD, 141, 142, 150, 151, 165, 165 HD, 165 MT, 165 S, 170, 170 MT, 208-S,</b> | Printed on 04/02/2025                   |
|                                                                                                                                                                                                                                                            | Page n. 4/23                            |
|                                                                                                                                                                                                                                                            | Replaced revision:1 (Dated: 27/02/2024) |

|                                                        |                   |                                                                                                                                                                         |
|--------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| REACH Reg. 01-2119453616-35-<br>xxxx                   |                   |                                                                                                                                                                         |
| <b>Hydrocarbons, C10, aromatics, &lt;1% naphtalene</b> |                   |                                                                                                                                                                         |
| INDEX -                                                | 2,5 ≤ x < 3       | Asp. Tox. 1 H304, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066                                                                                                        |
| EC 918-811-1                                           |                   |                                                                                                                                                                         |
| CAS -                                                  |                   |                                                                                                                                                                         |
| REACH Reg. 01-2119463583-34-<br>xxxx                   |                   |                                                                                                                                                                         |
| <b>AROMATIC HYDROCARBONS, C9</b>                       |                   |                                                                                                                                                                         |
| INDEX -                                                | 0,809 ≤ x < 0,909 | Flam. Liq. 3 H226, Asp. Tox. 1 H304, STOT SE 3 H335, STOT SE 3 H336, Aquatic Chronic 2 H411, EUH066, Classification note according to Annex VI to the CLP Regulation: P |
| EC 918-668-5                                           |                   |                                                                                                                                                                         |
| CAS -                                                  |                   |                                                                                                                                                                         |
| REACH Reg. 01-2119455851-35                            |                   |                                                                                                                                                                         |
| <b>4,4'-ISOPROPYLIDENEDIPHENOL</b>                     |                   |                                                                                                                                                                         |
| INDEX 604-030-00-0                                     | 0 < x < 0,01      | Repr. 1B H360F, Eye Dam. 1 H318, STOT SE 3 H335, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=10                                               |
| EC 201-245-8                                           |                   |                                                                                                                                                                         |
| CAS 80-05-7                                            |                   |                                                                                                                                                                         |
| REACH Reg. 2119457856-23-xxxx                          |                   |                                                                                                                                                                         |

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

SECTION 4. First aid measures

4.1. Description of first aid measures

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

Rescuer protection

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

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

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

|                                                                                                                                                                                                                                                            |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
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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).

**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.

|                                                                                                                                                                                                                                                     |                                         |
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|                                                                                                                                                                                                                                                     | Dated 04/02/2025                        |
|                                                                                                                                                                                                                                                     | Printed on 04/02/2025                   |
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|                                                                                                                                                                                                                                                     | Replaced revision:1 (Dated: 27/02/2024) |

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.  
Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

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

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

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

|     |                 |                                                                                                                                                                                                                      |
|-----|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                       |
| CZE | Česká Republika | NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci                                                                            |
| DEU | Deutschland     | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                        |
| DNK | Danmark         | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                                |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                               |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                   |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                  |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                              |
| NLD | Nederland       | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit                                                |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à |

|     |                |                                                                                                                                                                                                                                                                                            |
|-----|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POL | Polska         | exposição durante o trabalho a agentes cancerígenos ou mutagénicos<br>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                                                                                                                                                                                                                                                                                 |

| 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            |                        |                |                                   |  |  |
| 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<br>Chronic systemic |  |  |



| 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                   |               |                  |  |
| 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               |                        |               |                  |  |
| 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     |  |
| 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 |
|------|-----|-------------|-----|--------------|

| 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  |
| 4,4'-ISOPROPYLIDENEDIPHENOL                    |                      |                |               |                       |                    |                        |               |                  |
| Threshold Limit Value                          |                      |                |               |                       |                    |                        |               |                  |
| Type                                           | Country              | TWA/8h         |               | STEL/15min            |                    | Remarks / Observations |               |                  |
|                                                |                      | mg/m3          | ppm           | mg/m3                 | ppm                |                        |               |                  |
| TLV                                            | BGR                  | 2              |               |                       |                    | INHAL                  |               |                  |
| TLV                                            | CZE                  | 2              |               | 5                     |                    | INHAL                  |               |                  |
| AGW                                            | DEU                  | 5              |               | 5                     |                    | INHAL                  |               |                  |
| MAK                                            | DEU                  | 5              |               | 5                     |                    | INHAL                  |               |                  |
| TLV                                            | DNK                  | 2              |               |                       |                    | E                      |               |                  |
| VLA                                            | ESP                  | 2              |               |                       |                    |                        |               |                  |

|                                                |                      |                |                    |
|------------------------------------------------|----------------------|----------------|--------------------|
| VLEP                                           | FRA                  | 2              |                    |
| AK                                             | HUN                  | 2              |                    |
| VLEP                                           | ITA                  | 10             | INHAL              |
| TGG                                            | NLD                  | 2              | INHAL              |
| VLE                                            | PRT                  | 2              | INHAL              |
| NDS/NDSch                                      | POL                  | 2              | INHAL              |
| TLV                                            | ROU                  | 2              | INHAL              |
| WEL                                            | GBR                  | 2              |                    |
| OEL                                            | EU                   | 2              | INHAL              |
| Predicted no-effect concentration - PNEC       |                      |                |                    |
| Normal value in fresh water                    |                      | 0,018          | mg/l               |
| Normal value in marine water                   |                      | 0,016          | mg/l               |
| Normal value of STP microorganisms             |                      | 320            | mg/l               |
| Normal value for the terrestrial compartment   |                      | 3,7            | 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   |
| Oral                                           |                      |                | 0,05 mg/kg bw/d    |
| Inhalation                                     | 5 mg/m3              | 5 mg/m3        | 0,25 mg/m3         |
| Skin                                           |                      | 0,7 mg/kg bw/d | 0,7 mg/kg bw/d     |

Legend:

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

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

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

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

**EYE PROTECTION**  
Wear airtight protective goggles (see standard EN ISO 16321).

**RESPIRATORY PROTECTION**  
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. Use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387).  
If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

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

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

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

| Properties                             | Value                     | Information |
|----------------------------------------|---------------------------|-------------|
| Appearance                             | liquid                    |             |
| Colour                                 | various                   |             |
| Odour                                  | characteristic of solvent |             |
| Melting point / freezing point         | not available             |             |
| Initial boiling point                  | not available             |             |
| Flammability                           | not available             |             |
| Lower explosive limit                  | not available             |             |
| Upper explosive limit                  | not available             |             |
| Flash point                            | 23 ≤ T ≤ 60 °C            |             |
| Auto-ignition temperature              | not available             |             |
| Decomposition temperature              | not available             |             |
| pH                                     | not available             |             |
| Kinematic viscosity                    | not available             |             |
| Solubility                             | insoluble in water        |             |
| Partition coefficient: n-octanol/water | not available             |             |
| Vapour pressure                        | not available             |             |
| Density and/or relative density        | not available             |             |

|                                                                                                                                                                                                                                                            |  |                                                          |
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|                          |                |
|--------------------------|----------------|
| 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.

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.

CYCLOHEXANONE

Attacks various types of plastic materials.

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

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

2-METHOXY-1-METHYLETHYL ACETATE

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

CYCLOHEXANONE

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

AROMATIC HYDROCARBONS, C9

May react with: strong oxidising agents.

**10.4. Conditions to avoid**

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

CYCLOHEXANONE

Avoid exposure to: sources of heat,naked flames.

**10.5. Incompatible materials**

2-METHOXY-1-METHYLETHYL ACETATE

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

**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% naphtalene  
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

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

|                                                                                                                                                                                                                                                            |                                                          |
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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

ACUTE TOXICITY

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

4,4'-Isopropylidenediphenol-Epichlorohydrin Copolymer  
LD50 (Dermal): > 2000 mg/kg Ratto / Rat  
LD50 (Oral): > 2000 mg/kg Ratto / Rat

2-METHOXY-1-METHYLETHYL ACETATE  
LD50 (Dermal): > 5000 mg/kg Coniglio / Rabbit  
LD50 (Oral): 8500 mg/kg Ratto / Rat  
LC50 (Inhalation vapours): 4345 ppm/6h Ratto / Rat

BUTYLGLYCOL ACETATE  
ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)  
  
ATE (Oral): 500 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)  
  
LC50 (Inhalation vapours): > 2,66 mg/l/4h Rat  
ATE (Inhalation vapours): 11 mg/l estimate from table 3.1.2 of Annex I of the CLP  
(figure used for calculation of the acute toxicity estimate of the mixture)

CYCLOHEXANONE  
ATE (Dermal): 1100 mg/kg estimate from table 3.1.2 of Annex I of the CLP  
(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  
(figure used for calculation of the acute toxicity estimate of the mixture)

Hydrocarbons, C10, aromatics, <1% naphtalene  
LD50 (Dermal): > 2000 mg/kg Coniglio / Rabbit  
LD50 (Oral): 6318 mg/kg Ratto / Rat  
LC50 (Inhalation vapours): > 4688 mg/kg/4h Ratto / Rat

AROMATIC HYDROCARBONS, C9  
LD50 (Dermal): > 3160 mg/kg Ratto / Rat  
LD50 (Oral): 3492 mg/kg Ratto / Rat  
LC50 (Inhalation vapours): > 6193 mg/l/4h Ratto / Rat

4,4'-ISOPROPYLIDENEDIPHENOL  
LD50 (Dermal): 3000 mg/kg Rabbit  
LD50 (Oral): 5000 mg/kg

|                                                                                                                                                                                                                                                            |                                         |
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SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

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

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

May cause drowsiness or dizziness

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

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

**SECTION 12. Ecological information**

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

**12.1. Toxicity**

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

> 2 mg/l/96h

|                                                                                                                                                                                                                                                            |                                         |
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|                                                 |                                                    |
|-------------------------------------------------|----------------------------------------------------|
| EC50 - for Crustacea                            | > 3 mg/l/48h Daphnia magna                         |
| EC50 - for Algae / Aquatic Plants               | > 1 mg/l/72h                                       |
| 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     |
| 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              |
| 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             |
| BUTYLGLYCOL ACETATE                             |                                                    |
| LC50 - for Fish                                 | > 20 mg/l/96h Fish 20-40 mg/kg (48h)               |
| EC50 - for Crustacea                            | 145 mg/l/24h Daphnia Magna (24h)                   |
| EC50 - for Algae / Aquatic Plants               | 1570 mg/l/72h Scenedesmus subspicatus              |
| 4,4'-ISOPROPYLIDENEDIPHENOL                     |                                                    |
| LC50 - for Fish                                 | 9,4 mg/l/96h Menidia menidia                       |
| EC50 - for Crustacea                            | 10,2 mg/l/48h Daphnia magna                        |
| Chronic NOEC for Fish                           | 0,016 mg/l Pimephales promelas                     |
| Chronic NOEC for Crustacea                      | 1,8 mg/l Daphnia magna                             |
| <b>12.2. Persistence and degradability</b>      |                                                    |
| Hydrocarbons, C10, aromatics, <1%<br>naphtalene |                                                    |
| Solubility in water                             | immiscibile in H2O mg/l                            |
| Rapidly degradable                              |                                                    |
| AROMATIC HYDROCARBONS, C9                       |                                                    |
| Rapidly degradable                              |                                                    |
| 2-METHOXY-1-METHYLETHYL ACETATE                 |                                                    |
| Solubility in water                             | > 10000 mg/l                                       |
| Rapidly degradable                              |                                                    |
| OECD GI 301F 83% 10 d                           |                                                    |
| CYCLOHEXANONE                                   |                                                    |
| Solubility in water                             | 86 mg/l                                            |

|                                                                                                                                                                                                                                                            |                                         |
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Rapidly degradable  
BUTYLGLYCOL ACETATE

|                     |            |
|---------------------|------------|
| Solubility in water | 15000 mg/l |
|---------------------|------------|

Rapidly degradable  
4,4'-ISOPROPYLIDENEDIPHENOL

|                     |          |
|---------------------|----------|
| Solubility in water | 301 mg/l |
|---------------------|----------|

12.3. Bioaccumulative potential

2-METHOXY-1-METHYLETHYL ACETATE

|                                        |     |
|----------------------------------------|-----|
| Partition coefficient: n-octanol/water | 1,2 |
| BCF                                    | 100 |

CYCLOHEXANONE

|                                        |      |
|----------------------------------------|------|
| Partition coefficient: n-octanol/water | 0,86 |
|----------------------------------------|------|

BUTYLGLYCOL ACETATE

|                                        |      |
|----------------------------------------|------|
| Partition coefficient: n-octanol/water | 1,51 |
|----------------------------------------|------|

4,4'-ISOPROPYLIDENEDIPHENOL

|                                        |     |
|----------------------------------------|-----|
| Partition coefficient: n-octanol/water | 3,4 |
| BCF                                    | 73  |

12.4. Mobility in soil

2-METHOXY-1-METHYLETHYL ACETATE

|                                   |     |
|-----------------------------------|-----|
| Partition coefficient: soil/water | 1,7 |
|-----------------------------------|-----|

CYCLOHEXANONE

|                                   |      |
|-----------------------------------|------|
| Partition coefficient: soil/water | 1,18 |
|-----------------------------------|------|

4,4'-ISOPROPYLIDENEDIPHENOL

|                                   |      |
|-----------------------------------|------|
| Partition coefficient: soil/water | 2,95 |
|-----------------------------------|------|

12.5. Results of PBT and vPvB assessment

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

|                                                                                                                                                                                                                                                     |                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
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Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
Waste transportation may be subject to ADR restrictions.  
The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA: UN 1210

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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



14.4. Packing group

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: NO  
IMDG: not marine pollutant

|                                    |                             |                         |                                |
|------------------------------------|-----------------------------|-------------------------|--------------------------------|
| IATA:                              | NO                          |                         |                                |
| 14.6. Special precautions for user |                             |                         |                                |
| ADR / RID:                         | HIN - Kemler: 30            | Limited Quantities: 5   | Tunnel restriction code: (D/E) |
|                                    | Special provision: 163, 367 | It                      |                                |
| IMDG:                              | EMS: F-E, S-D               | Limited Quantities: 5   |                                |
|                                    |                             | It                      |                                |
| IATA:                              | Cargo:                      | Maximum quantity: 220 L | Packaging instructions: 366    |
|                                    | Passengers:                 | Maximum quantity: 60 L  | Packaging instructions: 355    |
|                                    | Special provision:          | A3, A72, A192           |                                |

14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EU: P5c

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

|                     |        |                                                               |
|---------------------|--------|---------------------------------------------------------------|
| Product             |        |                                                               |
| Point               | 3 - 40 |                                                               |
| Contained substance |        |                                                               |
| Point               | 75     | 4,4'-ISOPROPYLIDENEDIPHENOL<br>REACH Reg.: 2119457856-23-xxxx |
| Point               | 75     | CYCLOHEXANONE REACH Reg.:<br>01-2119453616-35-xxxx            |

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%.

|                                                                                                                                                                                                                                                            |                         |                                         |
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Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**SECTION 16. Other information**

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

|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Flam. Liq. 3</b>      | Flammable liquid, category 3                                       |
| <b>Repr. 1B</b>          | Reproductive toxicity, category 1B                                 |
| <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>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>STOT SE 3</b>         | Specific target organ toxicity - single exposure, category 3       |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <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>Aquatic Chronic 3</b> | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| <b>H226</b>              | Flammable liquid and vapour.                                       |
| <b>H360F</b>             | May damage fertility.                                              |
| <b>H302</b>              | Harmful if swallowed.                                              |
| <b>H312</b>              | Harmful in contact with skin.                                      |

|                                                                                                                                                                                                                                                            |                         |                                         |
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|               |                                                       |
|---------------|-------------------------------------------------------|
| <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>H315</b>   | Causes skin irritation.                               |
| <b>H335</b>   | May cause respiratory irritation.                     |
| <b>H317</b>   | May cause an allergic skin reaction.                  |
| <b>H336</b>   | May cause drowsiness or dizziness.                    |
| <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>H412</b>   | Harmful 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
3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament

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- 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
- 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
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- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

Note for users:

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

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

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

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

**CALCULATION METHODS FOR CLASSIFICATION**

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

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

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

Changes to previous review:

The following sections were modified:

01 / 03 / 04 / 07 / 08 / 11 / 13 / 14 / 15.