

## Safety Data Sheet

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

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

#### 1.1. Product identifier

Code: 4110023020  
Product name: Nitro diluent for washing  
UFI : 6H60-E059-800T-XHJ2

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

Intended use: Diluting-solvent for professional and industrial use

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

Name: Meccanocar Italia S.r.l.  
Full address: Via San Francesco, 22  
District and Country: 56033 Capannoli (PI)  
Italy

Tel. +39 0587 609433

Fax +39 0587 607145

e-mail address of the competent person

responsible for the Safety Data Sheet: mec@meccanocar.it  
Supplier:

#### 1.4. Emergency telephone number

For urgent inquiries refer to: National Poisons Information Service: +44 121 507 4123

### 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 2                                       | H225  | Highly flammable liquid and vapour.                                |
| Carcinogenicity, category 2  | H351  | Suspected of causing cancer.                                       |
| Reproductive toxicity, category 2                                  | H361d | Suspected of damaging the unborn child.                            |
| Aspiration hazard, category 1                                      | H304  | May be fatal if swallowed and enters airways.                      |
| Specific target organ toxicity - repeated exposure, category 2     | H373  | May cause damage to organs through prolonged or repeated exposure. |
| Eye irritation, category 2   | H319  | Causes serious eye irritation.                                     |
| Skin irritation, category 2  | H315  | Causes skin irritation.  |
| Specific target organ toxicity - single exposure, category 3       | H336  | May cause drowsiness or dizziness.                                 |
| Specific target organ toxicity - single exposure, category 2       | H371  | May cause damage to organs.  |
| Hazardous to the aquatic environment, chronic toxicity, category 3 | H412  | Harmful to aquatic life with long lasting effects.                 |

**4110023020 - Nitro diluent for washing****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>H225</b>  | Highly flammable liquid and vapour.                                |
| <b>H351</b>  | Suspected of causing cancer.                                       |
| <b>H361d</b> | Suspected of damaging the unborn child.                            |
| <b>H304</b>  | May be fatal if swallowed and enters airways.                      |
| <b>H373</b>  | May cause damage to organs through prolonged or repeated exposure. |
| <b>H319</b>  | Causes serious eye irritation.                                     |
| <b>H315</b>  | Causes skin irritation.  |
| <b>H336</b>  | May cause drowsiness or dizziness.                                 |
| <b>H371</b>  | May cause damage to organs.  |
| <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>P261</b>      | Avoid breathing dust / fume / gas / mist / vapours / spray.                                    |
| <b>P280</b>      | Wear protective gloves/ protective clothing / eye protection / face protection.                |
| <b>P301+P310</b> | IF SWALLOWED: Immediately contact a POISON CENTER / doctor.                                    |
| <b>P331</b>      | Do NOT induce vomiting.  |
| <b>P370+P378</b> | In case of fire: use CO2 extinguisher to extinguish.   |

**Contains:**                      DICHLOROMETHANE  
TOLUENE

METHYL ACETATE  
METHANOL

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

3.2. Mixtures

Contains:

| Identification                   | x = Conc. %   | Classification (EC) 1272/2008 (CLP)   |
|----------------------------------|---------------|---|
| <b>TOLUENE</b>                   |               |   |
| INDEX 601-021-00-3               | 22,5 ≤ x < 24 | Flam. Liq. 2 H225, Repr. 2 H361d, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 3 H412                                      |
| EC 203-625-9                     |               |   |
| CAS 108-88-3                     |               |   |
| REACH Reg. 01-2119471310-51-XXXX |               |   |
| <b>METHYL ACETATE</b>            |               |   |
| INDEX 607-021-00-X               | 21 ≤ x < 22,5 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066  |
| EC 201-185-2                     |               |   |
| CAS 79-20-9                      |               |   |
| REACH Reg. 01-2119459211-47-XXXX |               |   |
| <b>ACETONE</b>                   |               |   |
| INDEX 606-001-00-8               | 15 ≤ x < 16,5 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066  |
| EC 200-662-2                     |               |   |
| CAS 67-64-1                      |               |   |
| REACH Reg. 01-2119471330-49-XXXX |               |   |
| <b>ETHYL ACETATE</b>             |               |   |
| INDEX 607-022-00-5               | 13,5 ≤ x < 15 | Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066  |
| EC 205-500-4                     |               |   |
| CAS 141-78-6                     |               |   |
| REACH Reg. 01-2119475103-46-XXXX |               |   |
| <b>2-Metilpentano</b>            |               |   |
| INDEX 601-007-00-7               | 8,5 ≤ x < 10  | Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: C |
| EC 203-523-4                     |               |   |
| CAS 107-83-5                     |               |   |
| <b>METHANOL</b>                  |               |   |
| INDEX 603-001-00-X               | 3 ≤ x < 3,5   | Flam. Liq. 2 H225, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370  |

|   |                          |   |
|---|--------------------------|---|
| Meccanocar Italia S.r.l.  |                          | Revision nr. 1  |
|   |                          | Dated 11/06/2025  |
|   |                          | First compilation   |
| 4110023020 - Nitro diluent for washing                                  |                          | Printed on 13/06/2025   |
|   |                          | Page n. 4/38  |
| EC 200-659-6  |                          | STOT SE 2 H371: $\geq 3\%$ - $< 10\%$   |
| CAS 67-56-1   |                          | ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation vapours: 3 mg/l  |
| REACH Reg. 01-2119392409-28-XXXX  |                          |   |
| <b>Mixture of isomers of Esano</b>                                      |                          |   |
| INDEX 601-007-00-7  | $3 \leq x < 3,5$         | Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411, Classification note according to Annex VI to the CLP Regulation: C                               |
| EC 201-193-6  |                          |   |
| CAS 79-29-8   |                          |   |
| <b>DICHLOROMETHANE</b>  |                          |   |
| INDEX 602-004-00-3  | $2,5 \leq x < 3$         | Carc. 2 H351  |
| EC 200-838-9  |                          |   |
| CAS 75-09-2   |                          |   |
| REACH Reg. 01-2119480404-41-XXXX  |                          |   |
| <b>ETHANOL</b>  |                          |   |
| INDEX 603-002-00-5  | $1,5 \leq x < 2$         | Flam. Liq. 2 H225, Eye Irrit. 2 H319  |
| EC 200-578-6  |                          |   |
| CAS 64-17-5   |                          |   |
| REACH Reg. 01-2119457610-43-XXXX  |                          |   |
| <b>Metilformiato</b>  |                          |   |
| INDEX 607-014-00-1  | $0,6 \leq x < 0,7$       | Flam. Liq. 1 H224, Acute Tox. 3 H301, Acute Tox. 3 H311, Acute Tox. 3 H331, STOT SE 1 H370, Eye Irrit. 2 H319, STOT SE 3 H335   |
| EC 203-481-7  |                          | ATE Oral: 100 mg/kg, ATE Dermal: 300 mg/kg, ATE Inhalation mists/powders: 0,501 mg/l  |
| CAS 107-31-3  |                          |   |
| <b>TETRAHYDROFURAN</b>  |                          |   |
| INDEX 603-025-00-0  | $0,5 \leq x < 0,6$       | Flam. Liq. 2 H225, Carc. 2 H351, Acute Tox. 4 H302, Eye Irrit. 2 H319, STOT SE 3 H335, STOT SE 3 H336, EUH019   |
| EC 203-726-8  |                          | Eye Irrit. 2 H319: $\geq 25\%$ , STOT SE 3 H335: $\geq 25\%$  |
| CAS 109-99-9  |                          | LD50 Oral: 1650 mg/kg   |
| <b>Hydrocarbons, c6, n-alkans, isoalkans, cyclists, rich in N-Esano</b> |                          |   |
| INDEX -   | $0,4045 \leq x < 0,4545$ | Flam. Liq. 2 H225, Repr. 2 H361f, Asp. Tox. 1 H304, STOT RE 2 H373, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Chronic 2 H411  |
| EC 925-292-5  |                          |   |
| CAS 92112-69-1  |                          |   |
| REACH Reg. 01-2119474209-33-XXXX  |                          |   |
| <b>HEPTANE</b>  |                          |   |
| INDEX 601-008-00-2  | $0,25 \leq x < 0,3$      | Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1, Classification note according to Annex VI to the CLP Regulation: C |
| EC 205-563-8  |                          |   |
| CAS 142-82-5  |                          |   |
| <b>CYCLOHEXANE</b>  |                          |   |
| INDEX 601-017-00-1  | $0,2 \leq x < 0,25$      | Flam. Liq. 2 H225, Asp. Tox. 1 H304, Skin Irrit. 2 H315, STOT SE 3 H336, Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1   |
| EC 203-806-2  |                          |   |
| CAS 110-82-7  |                          |   |
| REACH Reg. 01-2119463273-41-XXXX  |                          |   |

**4110023020 - Nitro diluent for washing**

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

**SECTION 4. First aid measures****4.1. Description of first aid measures**

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. In the event of respiratory symptoms (coughing, wheezing, breathing difficulty, asthma) keep the victim in a comfortable position for breathing. If necessary administer oxygen. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

Rescuer protection

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

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

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

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

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

If symptoms occur, whether acute or delayed, consult 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 and 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**

If large quantities of the product are involved in a fire, they can make it considerably worse. Do not breathe combustion products.

**4110023020 - Nitro diluent for washing****5.3. Advice for firefighters****GENERAL INFORMATION**

In the case of fire, use jets of water to cool the containers to prevent the risk of explosions (product decomposition and excess pressure) and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Remove all containers containing the product from the fire, if it is safe to do so.

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

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

**SECTION 6. Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

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

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

**6.2. Environmental precautions**

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

**6.3. Methods and material for containment and cleaning up**

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

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

**6.4. Reference to other sections**

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

**SECTION 7. Handling and storage****7.1. Precautions for safe handling**

Ensure that there is an adequate earthing system for the equipment and personnel. Avoid contact with eyes and skin. Do not breathe powders, vapours or mists. Do not eat, drink or smoke during use. Wash hands after use. Avoid leakage of the product into the environment.

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. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised.

**7.2. Conditions for safe storage, including any incompatibilities**

Store only in the original container. Store in a ventilated and dry place, far away from sources of ignition. Keep containers well sealed. Keep the product in clearly labelled containers. Avoid overheating. Avoid violent blows. Keep containers away from any incompatible materials, see section 10 for details.

Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition.

7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

Regulatory references:

|   |                |  |
|---|----------------|--|
| 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   |
| ITA   | Italia         | Decreto Legislativo 9 Aprile 2008, n.81  |
| LTU   |                |  |
| Jsakymas dėl lietuvos higienos normos hn 23:2011 „cheminių medžiagų profesinio poveikio ribiniai dydžiai. Matavimo ir poveikio vertinimo bendrieji reikalavimai“ patvirtinimo |                |  |
| NOR   | Norge          | Forskrift om endring i forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier), 21. august 2018 nr. 1255  |
| 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  |
| 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   |

| TOLUENE                                      |         |        |     |            |       |                        |
|--|---------|--------|-----|------------|-------|------------------------|
| Threshold Limit Value                        |         |        |     |            |       |                        |
| Type   | Country | TWA/8h |     | STEL/15min |       | Remarks / Observations |
|  |         | mg/m3  | ppm | mg/m3      | ppm   |                        |
| VLA  | ESP     | 192    | 50  | 384        | 100   | SKIN                   |
| VLEP   | FRA     | 76,8   | 20  | 384        | 100   | SKIN                   |
| VLEP   | ITA     | 192    | 50  |            |       | SKIN                   |
| RD   | LTU     | 192    | 50  | 384        | 100   | SKIN                   |
| TLV  | NOR     | 94     | 25  |            |       | SKIN                   |
| VLE  | PRT     | 192    | 50  | 384        | 100   | SKIN                   |
| NDS/NDSch                                    | POL     | 100    |     | 200        |       | SKIN                   |
| WEL  | GBR     | 191    | 50  | 384        | 100   | SKIN                   |
| OEL  | EU      | 192    | 50  | 384        | 100   | SKIN                   |
| TLV-ACGIH                                    |         | 75,4   | 20  |            |       |                        |
| Predicted no-effect concentration - PNEC     |         |        |     |            |       |                        |
| Normal value in fresh water                  |         |        |     | 0,68       | mg/l  |                        |
| Normal value in marine water                 |         |        |     | 0,68       | mg/l  |                        |
| Normal value for fresh water sediment        |         |        |     | 16,39      | mg/kg |                        |
| Normal value for marine water sediment       |         |        |     | 16,39      | mg/kg |                        |
| Normal value of STP microorganisms           |         |        |     | 13,61      | mg/l  |                        |
| Normal value for the terrestrial compartment |         |        |     | 2,89       | mg/kg |                        |

|   |                      |                |               |                  |                       |                        |               |                  |
|---|----------------------|----------------|---------------|------------------|-----------------------|------------------------|---------------|------------------|
| Meccanocar Italia S.r.l.                              |                      |                |               |                  | Revision nr. 1        |                        |               |                  |
|   |                      |                |               |                  | Dated 11/06/2025      |                        |               |                  |
|   |                      |                |               |                  | First compilation     |                        |               |                  |
| 4110023020 - Nitro diluent for washing                |                      |                |               |                  | Printed on 13/06/2025 |                        |               |                  |
|   |                      |                |               |                  | Page n. 8/38          |                        |               |                  |
| 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  |                      |                |               | 8,13 mg/kg bw/d  |                       |                        |               |                  |
| Inhalation  | 226 mg/m3            | 226 mg/m3      | 56,5 mg/m3    | 56,5 mg/m3       | 384 mg/m3             | 384 mg/m3              | 192 mg/m3     | 192 mg/m3        |
| Skin  |                      |                |               | 226 mg/kg bw/d   |                       |                        |               | 384 mg/kg bw/d   |
| METHYL ACETATE  |                      |                |               |                  |                       |                        |               |                  |
| Threshold Limit Value                                 |                      |                |               |                  |                       |                        |               |                  |
| Type  | Country              | TWA/8h         |               | STEL/15min       |                       | Remarks / Observations |               |                  |
|   |                      | mg/m3          | ppm           | mg/m3            | ppm                   |                        |               |                  |
| VLA   | ESP                  | 616            | 200           | 770              | 250                   |                        |               |                  |
| VLEP  | FRA                  | 610            | 200           | 760              | 250                   | SKIN                   |               |                  |
| RD  | LTU                  | 450            | 150           | 900              | 300                   |                        |               |                  |
| TLV   | NOR                  | 305            | 100           |                  |                       |                        |               |                  |
| NDS/NDSch   | POL                  | 250            |               | 600              |                       |                        |               |                  |
| WEL   | GBR                  | 616            | 200           | 770              | 250                   |                        |               |                  |
| TLV-ACGIH   |                      | 606            | 200           | 757              | 250                   |                        |               |                  |
| Predicted no-effect concentration - PNEC              |                      |                |               |                  |                       |                        |               |                  |
| Normal value in fresh water                           |                      |                |               | 0,12             | mg/l                  |                        |               |                  |
| Normal value in marine water                          |                      |                |               | 0,012            | mg/l                  |                        |               |                  |
| Normal value for fresh water sediment                 |                      |                |               | 0,128            | mg/kg                 |                        |               |                  |
| Normal value for marine water sediment                |                      |                |               | 0,013            | mg/kg                 |                        |               |                  |
| Normal value of STP microorganisms                    |                      |                |               | 600              | mg/l                  |                        |               |                  |
| Normal value for the food chain (secondary poisoning) |                      |                |               | 20,4             | mg/kg                 |                        |               |                  |
| Normal value for the terrestrial compartment          |                      |                |               | 0,042            | 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  |                      |                |               | 44 mg/kg bw/d    |                       |                        |               |                  |
| Inhalation  |                      |                | 152 mg/m3     | 131 mg/m3        |                       |                        | 305 mg/m3     | 610 mg/m3        |
| Skin  |                      |                |               | 44 mg/kg bw/d    |                       |                        |               | 88 mg/kg bw/d    |
| ACETONE   |                      |                |               |                  |                       |                        |               |                  |
| Threshold Limit Value                                 |                      |                |               |                  |                       |                        |               |                  |
| Type  | Country              | TWA/8h         |               | STEL/15min       |                       | Remarks / Observations |               |                  |
|   |                      | mg/m3          | ppm           | mg/m3            | ppm                   |                        |               |                  |
| VLEP  | FRA                  | 1210           | 500           | 2420             | 1000                  |                        |               |                  |
| VLEP  | ITA                  | 1210           | 500           |                  |                       |                        |               |                  |
| RD  | LTU                  | 1210           | 500           | 2420             | 1000                  |                        |               |                  |
| TLV   | NOR                  | 295            | 125           |                  |                       |                        |               |                  |
| VLE   | PRT                  | 1210           | 500           |                  |                       |                        |               |                  |
| NDS/NDSch   | POL                  | 600            |               | 1800             |                       |                        |               |                  |
| WEL   | GBR                  | 1210           | 500           | 3620             | 1500                  |                        |               |                  |



|   |                      |                |               |                  |                        |                |               |                  |
|---|----------------------|----------------|---------------|------------------|------------------------|----------------|---------------|------------------|
| Meccanocar Italia S.r.l.                              |                      |                |               |                  | Revision nr. 1         |                |               |                  |
|   |                      |                |               |                  | Dated 11/06/2025       |                |               |                  |
|   |                      |                |               |                  | First compilation      |                |               |                  |
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|   |                      |                |               |                  | Page n. 9/38           |                |               |                  |
|   |                      |                |               |                  |                        |                |               |                  |
| OEL   | EU                   | 1210           | 500           |                  |                        |                |               |                  |
| TLV-ACGIH   |                      |                | 250           | 500              |                        |                |               |                  |
| Predicted no-effect concentration - PNEC              |                      |                |               |                  |                        |                |               |                  |
| Normal value in fresh water                           |                      |                |               | 10,6             | mg/l                   |                |               |                  |
| Normal value in marine water                          |                      |                |               | 1,06             | mg/l                   |                |               |                  |
| Normal value for fresh water sediment                 |                      |                |               | 30,4             | mg/kg                  |                |               |                  |
| Normal value for marine water sediment                |                      |                |               | 3,04             | mg/kg                  |                |               |                  |
| Normal value of STP microorganisms                    |                      |                |               | 100              | mg/l                   |                |               |                  |
| Normal value for the terrestrial compartment          |                      |                |               | 29,5             | 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 |
| Oral  |                      |                |               | 62 mg/kg bw/d    |                        |                |               |                  |
| Inhalation  |                      |                |               | 200 mg/m3        |                        |                | 2420 mg/m3    | 1210 mg/m3       |
| Skin  |                      |                |               | 62 mg/kg bw/d    |                        |                |               | 186 mg/kg bw/d   |
| ETHYL ACETATE   |                      |                |               |                  |                        |                |               |                  |
| Threshold Limit Value                                 |                      |                |               |                  |                        |                |               |                  |
| Type  | Country              | TWA/8h         | STEL/15min    |                  | Remarks / Observations |                |               |                  |
|   |                      | mg/m3          | ppm           | mg/m3            | ppm                    |                |               |                  |
| VLA   | ESP                  | 734            | 200           | 1468             | 400                    |                |               |                  |
| VLEP  | FRA                  | 1400           | 400           |                  |                        |                |               |                  |
| VLEP  | ITA                  | 734            | 200           | 1468             | 400                    |                |               |                  |
| RD  | LTU                  | 500            | 150           | 1100 (C)         | 300 (C)                |                |               |                  |
| TLV   | NOR                  | 734            | 200           |                  |                        |                |               |                  |
| VLE   | PRT                  | 734            | 200           | 1468             | 400                    |                |               |                  |
| NDS/NDSch   | POL                  | 734            |               | 1468             |                        |                |               |                  |
| WEL   | GBR                  | 734            | 200           | 1468             | 400                    |                |               |                  |
| OEL   | EU                   | 734            | 200           | 1468             | 400                    |                |               |                  |
| TLV-ACGIH   |                      | 1441           | 400           |                  |                        |                |               |                  |
| Predicted no-effect concentration - PNEC              |                      |                |               |                  |                        |                |               |                  |
| Normal value in fresh water                           |                      |                |               | 0,24             | mg/l                   |                |               |                  |
| Normal value in marine water                          |                      |                |               | 0,024            | mg/l                   |                |               |                  |
| Normal value for fresh water sediment                 |                      |                |               | 1,15             | mg/kg                  |                |               |                  |
| Normal value for marine water sediment                |                      |                |               | 0,115            | mg/kg                  |                |               |                  |
| Normal value of STP microorganisms                    |                      |                |               | 650              | mg/l                   |                |               |                  |
| Normal value for the food chain (secondary poisoning) |                      |                |               | 0,2              | mg/kg                  |                |               |                  |
| Normal value for the terrestrial compartment          |                      |                |               | 0,148            | 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  |                      |                |               | 4,5 mg/kg bw/d   |                        |                |               |                  |
| Inhalation  | 734 mg/m3            | 734 mg/m3      | 367 mg/m3     | 367 mg/m3        | 1468 mg/m3             | 1468 mg/m3     | 734 mg/m3     | 734 mg/m3        |

|  |         |        |                       |                       |                           |
|--|---------|--------|-----------------------|-----------------------|---------------------------|
| Meccanocar Italia S.r.l.                       |         |        |                       | Revision nr. 1        |                           |
|  |         |        |                       | Dated 11/06/2025      |                           |
|  |         |        |                       | First compilation     |                           |
| 4110023020 - Nitro diluent for washing         |         |        |                       | Printed on 13/06/2025 |                           |
|  |         |        |                       | Page n. 10/38         |                           |
| Skin   |         |        |                       |                       |                           |
|  |         |        | 37 mg/kg<br>bw/d      |                       | 63 mg/kg<br>bw/d          |
| 2-Metilpentano                                 |         |        |                       |                       |                           |
| Threshold Limit Value                          |         |        |                       |                       |                           |
| Type   | Country | TWA/8h | STEL/15min            |                       | Remarks /<br>Observations |
|  |         | mg/m3  | ppm                   | mg/m3                 | ppm                       |
| VLA  | ESP     | 1790   | 500                   | 3580                  | 1000                      |
| VLEP   | FRA     | 1800   | 500                   |                       |                           |
| RD   | LTU     | 700    | 200                   |                       |                           |
| TLV  | NOR     | 1050   | 250                   |                       |                           |
| TLV-ACGIH                                      |         | 1762   | 500                   | 3525                  | 1000                      |
| Mixture of isomers of Esano                    |         |        |                       |                       |                           |
| Threshold Limit Value                          |         |        |                       |                       |                           |
| Type   | Country | TWA/8h | STEL/15min            |                       | Remarks /<br>Observations |
|  |         | mg/m3  | ppm                   | mg/m3                 | ppm                       |
| VLA  | ESP     | 1790   | 500                   | 3580                  | 1000                      |
| VLEP   | FRA     | 1800   | 500                   |                       |                           |
| RD   | LTU     | 700    | 200                   |                       |                           |
| TLV  | NOR     | 1050   | 250                   |                       |                           |
| TLV-ACGIH                                      |         | 1762   | 500                   | 3525                  | 1000                      |
| METHANOL                                       |         |        |                       |                       |                           |
| Threshold Limit Value                          |         |        |                       |                       |                           |
| Type   | Country | TWA/8h | STEL/15min            |                       | Remarks /<br>Observations |
|  |         | mg/m3  | ppm                   | mg/m3                 | ppm                       |
| VLA  | ESP     | 266    | 200                   |                       | SKIN                      |
| VLEP   | FRA     | 260    | 200                   | 1300                  | 1000 SKIN 11              |
| VLEP   | ITA     | 260    | 200                   |                       | SKIN                      |
| RD   | LTU     | 260    | 200                   |                       | SKIN                      |
| TLV  | NOR     | 130    | 100                   |                       | SKIN                      |
| VLE  | PRT     | 260    | 200                   |                       | SKIN                      |
| NDS/NDSch                                      | POL     | 100    |                       | 300                   | SKIN                      |
| WEL  | GBR     | 266    | 200                   | 333                   | 250 SKIN                  |
| OEL  | EU      | 260    | 200                   |                       |                           |
| TLV-ACGIH                                      |         | 262    | 200                   | 328                   | 250 SKIN                  |
| Predicted no-effect concentration - PNEC       |         |        |                       |                       |                           |
| Normal value in fresh water                    |         |        | 20,8                  | mg/l                  |                           |
| Normal value in marine water                   |         |        | 2,08                  | mg/l                  |                           |
| Normal value for fresh water sediment          |         |        | 77                    | mg/kg                 |                           |
| Normal value for marine water sediment         |         |        | 7,7                   | mg/kg                 |                           |
| Normal value of STP microorganisms             |         |        | 100                   | mg/l                  |                           |
| Normal value for the terrestrial compartment   |         |        | 100                   | mg/kg                 |                           |
| Health - Derived no-effect level - DNEL / DMEL |         |        |                       |                       |                           |
| Effects on<br>consumers                        |         |        | Effects on<br>workers |                       |                           |

|  |             |                      |               |                  |                    |                        |               |                  |
|--|-------------|----------------------|---------------|------------------|--------------------|------------------------|---------------|------------------|
| Meccanocar Italia S.r.l.                       |             |                      |               |                  |                    | Revision nr. 1         |               |                  |
|  |             |                      |               |                  |                    | Dated 11/06/2025       |               |                  |
|  |             |                      |               |                  |                    | First compilation      |               |                  |
| 4110023020 - Nitro diluent for washing         |             |                      |               |                  |                    | Printed on 13/06/2025  |               |                  |
|  |             |                      |               |                  |                    | Page n. 11/38          |               |                  |
|  |             |                      |               |                  |                    |                        |               |                  |
| Route of exposure                              | Acute local | Acute systemic       | Chronic local | Chronic systemic | Acute local        | Acute systemic         | Chronic local | Chronic systemic |
| Oral   |             | 4 mg/kg bw/d         |               | 4 mg/kg bw/d     |                    |                        |               |                  |
| Inhalation                                     | 26 mg/m3    | 26 mg/m3             | 26 mg/m3      | 26 mg/m3         | 130 mg/m3          | 130 mg/m3              | 130 mg/m3     | 130 mg/m3        |
| Skin   |             | 4 mg/kg bw/d         |               | 4 mg/kg bw/d     |                    | 20 mg/kg bw/d          |               | 20 mg/kg bw/d    |
| DICHLOROMETHANE                                |             |                      |               |                  |                    |                        |               |                  |
| Threshold Limit Value                          |             |                      |               |                  |                    |                        |               |                  |
| Type   | Country     | TWA/8h               |               | STEL/15min       |                    | Remarks / Observations |               |                  |
|  |             | mg/m3                | ppm           | mg/m3            | ppm                |                        |               |                  |
| VLA  | ESP         | 177                  | 50            | 353              | 100                | SKIN                   |               |                  |
| VLEP   | FRA         | 178                  | 50            | 356              | 100                | SKIN                   |               |                  |
| VLEP   | ITA         | 175                  | 50            | 353              | 100                | SKIN                   |               |                  |
| RD   | LTU         | 120                  | 35            | 250              | 70                 | SKIN                   |               |                  |
| TLV  | NOR         | 50                   | 15            | 150              | 45                 | SKIN                   |               |                  |
| VLE  | PRT         | 353                  | 100           | 706              | 200                | SKIN                   |               |                  |
| NDS/NDSch                                      | POL         | 88                   |               | 353              |                    | SKIN                   |               |                  |
| WEL  | GBR         | 353                  | 100           | 706              | 200                | SKIN                   |               |                  |
| OEL  | EU          | 353                  | 100           | 706              | 200                | SKIN                   |               |                  |
| TLV-ACGIH                                      |             | 174                  | 50            |                  |                    |                        |               |                  |
| Predicted no-effect concentration - PNEC       |             |                      |               |                  |                    |                        |               |                  |
| Normal value in fresh water                    |             |                      |               | 0,31             | mg/l               |                        |               |                  |
| Normal value in marine water                   |             |                      |               | 0,031            | mg/l               |                        |               |                  |
| Normal value for fresh water sediment          |             |                      |               | 2,57             | mg/kg              |                        |               |                  |
| Normal value for marine water sediment         |             |                      |               | 0,26             | mg/kg              |                        |               |                  |
| Normal value of STP microorganisms             |             |                      |               | 26               | mg/l               |                        |               |                  |
| Normal value for the terrestrial compartment   |             |                      |               | 0,33             | 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   |             |                      |               | 0,06 mg/kg bw/d  |                    |                        |               |                  |
| Inhalation                                     |             | 353 mg/m3            |               | 88,3 mg/m3       |                    | 706 mg/m3              |               | 353 mg/m3        |
| Skin   |             |                      |               | 5,82 mg/kg bw/d  |                    |                        |               | 12 mg/kg bw/d    |
| ETHANOL  |             |                      |               |                  |                    |                        |               |                  |
| Threshold Limit Value                          |             |                      |               |                  |                    |                        |               |                  |
| Type   | Country     | TWA/8h               |               | STEL/15min       |                    | Remarks / Observations |               |                  |
|  |             | mg/m3                | ppm           | mg/m3            | ppm                |                        |               |                  |
| VLA  | ESP         |                      |               | 1910             | 1000               |                        |               |                  |
| VLEP   | FRA         | 1900                 | 1000          | 9500             | 5000               |                        |               |                  |
| RD   | LTU         | 1000                 | 500           | 1900             | 1000               |                        |               |                  |
| TLV  | NOR         | 950                  | 500           |                  |                    |                        |               |                  |
| NDS/NDSch                                      | POL         | 1900                 |               |                  |                    |                        |               |                  |
| WEL  | GBR         | 1920                 | 1000          |                  |                    |                        |               |                  |
|  |             |                      |               |                  |                    |                        |               |                  |

|  |  |  |  |  |  |                       |  |  |
|--|--|--|--|--|--|-----------------------|--|--|
| Meccanocar Italia S.r.l.   |  |  |  |  |  | Revision nr. 1        |  |  |
|  |  |  |  |  |  | Dated 11/06/2025      |  |  |
|  |  |  |  |  |  | First compilation     |  |  |
| 4110023020 - Nitro diluent for washing                           |  |  |  |  |  | Printed on 13/06/2025 |  |  |
|  |  |  |  |  |  | Page n. 12/38         |  |  |
| TLV-ACGIH  |  |  |  |  |  |                       |  |  |
| 1884   |  |  |  |  |  |                       |  |  |
| 1000   |  |  |  |  |  |                       |  |  |
| Predicted no-effect concentration - PNEC                         |  |  |  |  |  |                       |  |  |
| Normal value in fresh water                                      |  |  |  |  |  |                       |  |  |
| 0,96   |  |  |  |  |  |                       |  |  |
| mg/l   |  |  |  |  |  |                       |  |  |
| Normal value in marine water                                     |  |  |  |  |  |                       |  |  |
| 0,79   |  |  |  |  |  |                       |  |  |
| mg/l   |  |  |  |  |  |                       |  |  |
| Normal value for fresh water sediment                            |  |  |  |  |  |                       |  |  |
| 3,6  |  |  |  |  |  |                       |  |  |
| mg/kg  |  |  |  |  |  |                       |  |  |
| Normal value for marine water sediment                           |  |  |  |  |  |                       |  |  |
| 2,9  |  |  |  |  |  |                       |  |  |
| mg/kg  |  |  |  |  |  |                       |  |  |
| Normal value of STP microorganisms                               |  |  |  |  |  |                       |  |  |
| 580  |  |  |  |  |  |                       |  |  |
| mg/l   |  |  |  |  |  |                       |  |  |
| Normal value for the food chain (secondary poisoning)            |  |  |  |  |  |                       |  |  |
| 0,38   |  |  |  |  |  |                       |  |  |
| mg/kg  |  |  |  |  |  |                       |  |  |
| Normal value for the terrestrial compartment                     |  |  |  |  |  |                       |  |  |
| 0,63   |  |  |  |  |  |                       |  |  |
| mg/kg  |  |  |  |  |  |                       |  |  |
| Health - Derived no-effect level - DNEL / DMEL                   |  |  |  |  |  |                       |  |  |
| Effects on consumers   |  |  |  |  |  |                       |  |  |
| Effects on workers   |  |  |  |  |  |                       |  |  |
| Route of exposure  |  |  |  |  |  |                       |  |  |
| Acute local  |  |  |  |  |  |                       |  |  |
| Acute systemic   |  |  |  |  |  |                       |  |  |
| Chronic local  |  |  |  |  |  |                       |  |  |
| Chronic systemic   |  |  |  |  |  |                       |  |  |
| Acute local  |  |  |  |  |  |                       |  |  |
| Acute systemic   |  |  |  |  |  |                       |  |  |
| Chronic local  |  |  |  |  |  |                       |  |  |
| Chronic systemic   |  |  |  |  |  |                       |  |  |
| Oral   |  |  |  |  |  |                       |  |  |
| 87 mg/kg bw/d  |  |  |  |  |  |                       |  |  |
| Inhalation   |  |  |  |  |  |                       |  |  |
| 114 mg/m3  |  |  |  |  |  |                       |  |  |
| 950 mg/m3  |  |  |  |  |  |                       |  |  |
| Skin   |  |  |  |  |  |                       |  |  |
| 206 mg/kg bw/d   |  |  |  |  |  |                       |  |  |
| 343 mg/kg bw/d   |  |  |  |  |  |                       |  |  |
| TETRAHYDROFURAN  |  |  |  |  |  |                       |  |  |
| Threshold Limit Value  |  |  |  |  |  |                       |  |  |
| Type   |  |  |  |  |  |                       |  |  |
| Country  |  |  |  |  |  |                       |  |  |
| TWA/8h   |  |  |  |  |  |                       |  |  |
| STEL/15min   |  |  |  |  |  |                       |  |  |
| Remarks / Observations   |  |  |  |  |  |                       |  |  |
| mg/m3  |  |  |  |  |  |                       |  |  |
| ppm  |  |  |  |  |  |                       |  |  |
| mg/m3  |  |  |  |  |  |                       |  |  |
| ppm  |  |  |  |  |  |                       |  |  |
| VLA  |  |  |  |  |  |                       |  |  |
| ESP  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| VLEP   |  |  |  |  |  |                       |  |  |
| FRA  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| VLEP   |  |  |  |  |  |                       |  |  |
| ITA  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| RD   |  |  |  |  |  |                       |  |  |
| LTU  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| TLV  |  |  |  |  |  |                       |  |  |
| NOR  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| VLE  |  |  |  |  |  |                       |  |  |
| PRT  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| NDS/NDSch  |  |  |  |  |  |                       |  |  |
| POL  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| WEL  |  |  |  |  |  |                       |  |  |
| GBR  |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| OEL  |  |  |  |  |  |                       |  |  |
| EU   |  |  |  |  |  |                       |  |  |
| 150  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 300  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| TLV-ACGIH  |  |  |  |  |  |                       |  |  |
| 147  |  |  |  |  |  |                       |  |  |
| 50   |  |  |  |  |  |                       |  |  |
| 295  |  |  |  |  |  |                       |  |  |
| 100  |  |  |  |  |  |                       |  |  |
| SKIN   |  |  |  |  |  |                       |  |  |
| Hydrocarbons, c6, n-alkans, isoalkans, cyclists, rich in N-Esano |  |  |  |  |  |                       |  |  |
| 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   |  |  |  |  |  |                       |  |  |
| 6 mg/kg bw/d   |  |  |  |  |  |                       |  |  |
| Inhalation   |  |  |  |  |  |                       |  |  |
| 20 mg/m3   |  |  |  |  |  |                       |  |  |
| 93 mg/m3   |  |  |  |  |  |                       |  |  |
| Skin   |  |  |  |  |  |                       |  |  |
| 7 mg/kg bw/d   |  |  |  |  |  |                       |  |  |
| 13 mg/kg bw/d  |  |  |  |  |  |                       |  |  |
| HEPTANE  |  |  |  |  |  |                       |  |  |
| Threshold Limit Value  |  |  |  |  |  |                       |  |  |
| Type   |  |  |  |  |  |                       |  |  |
| Country  |  |  |  |  |  |                       |  |  |
| TWA/8h   |  |  |  |  |  |                       |  |  |
| STEL/15min   |  |  |  |  |  |                       |  |  |
| Remarks / Observations   |  |  |  |  |  |                       |  |  |
| mg/m3  |  |  |  |  |  |                       |  |  |
| ppm  |  |  |  |  |  |                       |  |  |
| mg/m3  |  |  |  |  |  |                       |  |  |
| ppm  |  |  |  |  |  |                       |  |  |
| VLA  |  |  |  |  |  |                       |  |  |
| ESP  |  |  |  |  |  |                       |  |  |
| 2085   |  |  |  |  |  |                       |  |  |
| 500  |  |  |  |  |  |                       |  |  |
| Como n-Eptano  |  |  |  |  |  |                       |  |  |

|  |                      |                |               |                  |                        |                       |               |                  |  |
|--|----------------------|----------------|---------------|------------------|------------------------|-----------------------|---------------|------------------|--|
| Meccanocar Italia S.r.l.                       |                      |                |               |                  |                        | Revision nr. 1        |               |                  |  |
|  |                      |                |               |                  |                        | Dated 11/06/2025      |               |                  |  |
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| 4110023020 - Nitro diluent for washing         |                      |                |               |                  |                        | Printed on 13/06/2025 |               |                  |  |
|  |                      |                |               |                  |                        | Page n. 13/38         |               |                  |  |
|  |                      |                |               |                  |                        |                       |               |                  |  |
| VLEP   | FRA                  | 1668           | 400           | 2085             | 500                    |                       |               |                  |  |
| VLEP   | ITA                  | 2085           | 500           |                  |                        |                       |               |                  |  |
| RD   | LTU                  | 2085           | 500           | 3128             | 750                    |                       |               |                  |  |
| TLV  | NOR                  | 800            | 200           |                  |                        |                       |               |                  |  |
| VLE  | PRT                  | 2085           | 500           |                  |                        |                       |               |                  |  |
| NDS/NDSch                                      | POL                  | 1200           | 2000          |                  |                        |                       |               |                  |  |
| WEL  | GBR                  | 2085           | 500           |                  |                        |                       |               |                  |  |
| OEL  | EU                   | 2085           | 500           |                  |                        |                       |               |                  |  |
| TLV-ACGIH                                      |                      | 1639           | 400           | 2049             | 500                    |                       |               |                  |  |
| 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   |                      |                |               | 149 mg/kg bw/d   |                        |                       |               |                  |  |
| Inhalation                                     |                      |                |               | 447 mg/m3        | 2085 mg/m3             |                       |               |                  |  |
| Skin   |                      |                |               | 149 mg/kg bw/d   | 300 mg/kg bw/d         |                       |               |                  |  |
| CYCLOHEXANE                                    |                      |                |               |                  |                        |                       |               |                  |  |
| Threshold Limit Value                          |                      |                |               |                  |                        |                       |               |                  |  |
| Type   | Country              | TWA/8h         | STEL/15min    |                  | Remarks / Observations |                       |               |                  |  |
|  |                      | mg/m3          | ppm           | mg/m3            | ppm                    |                       |               |                  |  |
| VLA  | ESP                  | 700            | 200           |                  |                        |                       |               |                  |  |
| VLEP   | FRA                  | 700            | 200           | 1300             | 375                    | 11                    |               |                  |  |
| VLEP   | ITA                  | 350            | 100           |                  |                        |                       |               |                  |  |
| RD   | LTU                  | 700            | 200           |                  |                        |                       |               |                  |  |
| TLV  | NOR                  | 525            | 150           |                  |                        |                       |               |                  |  |
| VLE  | PRT                  | 700            | 200           |                  |                        |                       |               |                  |  |
| NDS/NDSch                                      | POL                  | 300            | 1000          |                  | SKIN                   |                       |               |                  |  |
| WEL  | GBR                  | 350            | 100           | 1050             | 300                    |                       |               |                  |  |
| OEL  | EU                   | 700            | 200           |                  |                        |                       |               |                  |  |
| TLV-ACGIH                                      |                      | 344            | 100           |                  |                        |                       |               |                  |  |
| Predicted no-effect concentration - PNEC       |                      |                |               |                  |                        |                       |               |                  |  |
| Normal value in fresh water                    |                      |                |               | 0,207            | mg/l                   |                       |               |                  |  |
| Normal value in marine water                   |                      |                |               | 0,207            | mg/l                   |                       |               |                  |  |
| Normal value for fresh water sediment          |                      |                |               | 16,68            | mg/kg                  |                       |               |                  |  |
| Normal value for marine water sediment         |                      |                |               | 16,68            | mg/kg                  |                       |               |                  |  |
| Normal value of STP microorganisms             |                      |                |               | 3,24             | mg/l                   |                       |               |                  |  |
| Normal value for the terrestrial compartment   |                      |                |               | 3,38             | 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   |                      |                |               | 59,4 mg/kg bw/d  |                        |                       |               |                  |  |
| Inhalation                                     | 412 mg/m3            | 412 mg/m3      | 206 mg/m3     | 206 mg/m3        | 1400 mg/m3             | 1400 mg/m3            | 700 mg/m3     | 700 mg/m3        |  |
| Skin   |                      |                |               | 1186 mg/kg bw/d  | 2016 mg/kg bw/d        |                       |               |                  |  |

**4110023020 - Nitro diluent for washing**

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.

Exposure levels must be kept as low as possible to avoid significant build-up in the organism. Manage personal protective equipment so as to guarantee maximum protection (e.g. reduction in replacement times).

### 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.

### ACETONE

Protective gloves according to EN 374.

**4110023020 - Nitro diluent for washing**

Glove material: Butyl rubber (butyl rubber) - Layer thickness  $\geq 0.5$  mm.

Penetration time:  $> 480$  min.

Observe the glove manufacturer's instructions regarding penetrability and breakthrough time.

**ETHYL ACETATE**

Butyl rubber gloves (opening times  $> 480$  minutes), Neoprene <sup>™</sup> rubber, nitrile rubber (opening times up to 480 minutes).

**DICHLOROMETHANE**

In case of intense contact, wear protective gloves (EN 374). Sufficient protection is provided by wearing suitable protective gloves checked according to EN 374, in case of risk of skin contact of the product. Before use, the protective glove should be tested in each case for workstation-specific suitability (i.e. mechanical strength, product compatibility and antistatic properties).

Follow the manufacturer's instructions and information regarding the use, storage, care and replacement of protective gloves.

Protective gloves must be replaced immediately if damaged or physically worn. Design operations in such a way as to avoid permanent use of protective gloves.

Hydrocarbons, c6, n-alkans, isoalkans, cyclists, rich in N-Esano

Eye protection: safety glasses

Protection of the skin and body (with the exception of hands): adequate protective clothing. Boots

Wear face protection

Hygienic work practices: do not eat, drink or smoke during the manipulation of the product

**SECTION 9. Physical and chemical properties****9.1. Information on basic physical and chemical properties**

| Properties                     | Value                     | Information |
|--------------------------------|---------------------------|-------------|
| Appearance                     | liquid                    |             |
| Colour                         | transparent               |             |
| Odour                          | characteristic of solvent |             |
| Melting point / freezing point | not available             |             |
| Initial boiling point          | $> 65$ °C                 |             |
| Flammability                   | not available             |             |
| Lower explosive limit          | not available             |             |
| Upper explosive limit          | not available             |             |
| Flash point                    | $< 23$ °C                 |             |
| Auto-ignition temperature      | not available             |             |
| Decomposition temperature      | not available             |             |
| pH                             | not available             |             |
| Kinematic viscosity            | not available             |             |
| Solubility                     | not available             |             |

**4110023020 - Nitro diluent for washing**

|  |                |
|--|----------------|
| Partition coefficient: n-octanol/water | not available  |
| Vapour pressure                        | not available  |
| Density and/or relative density        | 0,845          |
| 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

|                            |          |   |        |         |
|----------------------------|----------|---|--------|---------|
| VOC (Directive 2010/75/EU) | 100,00 % | - | 845,00 | g/litre |
| VOC (volatile carbon)      | 0        |   |        |         |

**SECTION 10. Stability and reactivity****10.1. Reactivity**

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

**TOLUENE**

Avoid exposure to: light.

**ACETONE**

Decomposes under the effect of heat.

Acetone reacts in the presence of bases. Vapor forms potentially explosive mixtures with air. Heavier than air, they ride at floor level and can flash a great distance when turned on. It can charge electrostatically.

**ETHYL ACETATE**

It slowly decomposes to acetic acid and ethanol by the action of light, air and water. Stable under normal conditions. Upon storage, it is slowly decomposed by water.

**DICHLOROMETHANE**

Decomposes at temperatures above 120°C/248°F.

With water and alkalis it may form hydrochloric acid and attack aluminium, copper and alloys.

**TETRAHYDROFURAN**

May form peroxides with: air.



**4110023020 - Nitro diluent for washing**

Stabilize the product with a reducing agent (ferrous sulphate, hydroquinone).

**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.

**TOLUENE**

Risk of explosion on contact with: fuming sulphuric acid, nitric acid, silver perchlorate, nitrogen dioxide, non-metal halogenates, acetic acid, organic nitrocompounds. May form explosive mixtures with: air. May react dangerously with: strong oxidising agents, strong acids, sulphur.

**ACETONE**

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

**ETHYL ACETATE**

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

**DICHLOROMETHANE**

Risk of explosion on contact with: alkaline metals, nitric acid, aluminium powder, ethanediamine, aluminium chloride, perchloric acid, dinitrogen pentoxide, sodium nitride, n-nitroso n-methylurea, potassium hydroxide. May react dangerously with: alkaline earth metals, metal powders, sodium amides, potassium tert-butoxide. May form explosive mixtures with: air.

**ETHANOL**

Risk of explosion on contact with: alkaline metals, alkaline oxides, calcium hypochlorite, sulphur monofluoride, acetic anhydride, acids, concentrated hydrogen peroxide, perchlorates, perchloric acid, perchloronitrile, mercury nitrate, nitric acid, silver, silver nitrate, ammonia, silver oxide, ammonia, strong oxidising agents, nitrogen dioxide. May react dangerously with: bromoacetylene, chlorine acetylene, bromine trifluoride, chromium trioxide, chromyl chloride, fluorine, potassium tert-butoxide, lithium hydride, phosphorus trioxide, black platinum, zirconium (IV) chloride, zirconium (IV) iodide. Forms explosive mixtures with: air.

**TETRAHYDROFURAN**

Reacts violently developing heat on contact with: metal halogenates, thionile chloride, bromine. Develops flammable gas on contact with: oxidising substances. Develops hydrogen on contact with: sodium aluminium hydride, calcium hydride, lithium aluminium hydride. Risk of explosion on contact with: 2-aminophenol, potassium peroxide, alkaline hydroxides. Forms explosive mixtures with: air.

**CYCLOHEXANE**

May react violently with: strong oxidants, liquid nitric oxide. Forms explosive mixtures with: air.

**10.4. Conditions to avoid**

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

**4110023020 - Nitro diluent for washing****METHYL ACETATE**

Static charge/discharge, vapor/aerosol formation, ignition sources.

**ACETONE**

Avoid exposure to: sources of heat,naked flames.

Highly flammable. Concentrated vapors are heavier than air. Forms explosive mixtures with air, even in empty and uncleaned containers. May produce, if mixed with chlorinated hydrocarbons and exposed to light, highly irritating chloric acetone.

**ETHYL ACETATE**

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

Ignition sources.

**DICHLOROMETHANE**

Avoid exposure to: naked flames,overheated surfaces.

**ETHANOL**

Avoid exposure to: sources of heat,naked flames.

High temperature. Proximity to sources of ignition

**TETRAHYDROFURAN**

Avoid exposure to: sources of heat,naked flames.

Hydrocarbons, c6, n-alkans, isoalcans, cyclists, rich in N-Esano

Heat, sparks, ignition points, flames, static electricity

**10.5. Incompatible materials****METHYL ACETATE**

Oxidizing agents. Reacts with: alkali. The reaction causes the formation of: methanol and heat.

**ACETONE**

Incompatible with: acids,oxidising substances.

Attacks many plastics and rubbers. Condensation may form when in contact with barium hydroxide, sodium hydroxide and many other alkaline materials.

**4110023020 - Nitro diluent for washing**

Avoid contact with strong oxidizing agents, alkalis and amines.

**ETHYL ACETATE**

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

Oxidizing agents, acids, alkalis.

**DICHLOROMETHANE**

Incompatible with: aluminium,magnesium,sodium,potassium,nitric acid,caustic substances,strong oxidants.

Reactions with alkali metals. Reactions with alkaline earth metals. Aluminum powder; Reactions with powdered metals.  
Reactions with alkali. Reactions with strong acids. Reactions with strong oxidizing agents. Zinc

**ETHANOL**

strong mineral acids, oxidizing agents. Aluminum at higher temperatures.

Hydrocarbons, c6, n-alkans, isoalcans, cyclists, rich in N-Esano

Strong oxidizing agents

**CYCLOHEXANE**

Incompatible materials: natural rubbers,neoprene,polyvinyl chloride,polyethylene.

**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.

**ACETONE**

May develop: ketenes,irritant substances.

In the event of a fire, the following may be released: carbon monoxide and carbon dioxide.

**ETHYL ACETATE**

Carbon oxides on combustion.

**DICHLOROMETHANE**

May develop: dioxins,phosgenes,hydrochloric acid.

Hydrochloric acid (HCl); Possible traces: carbon monoxide; Chlorine; Phosgene.

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|---|---|
| <b>Meccanocar Italia S.r.l.</b>               | Revision nr. 1<br>Dated 11/06/2025<br>First compilation |
| <b>4110023020 - Nitro diluent for washing</b> | Printed on 13/06/2025<br>Page n. 20/38                  |

ETHANOL

Combustion will generate carbon oxides.

Hydrocarbons, c6, n-alkans, isoalcans, cyclists, rich in N-Esano

Incomplete combustion and thermolis produce potentially toxic gases such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot

**SECTION 11. Toxicological information**

**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

TOLUENE

WORKERS: inhalation; contact with the skin.

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

METHANOL

WORKERS: inhalation; contact with the skin.

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

DICHLOROMETHANE

WORKERS: inhalation; contact with the skin.

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

CYCLOHEXANE

WORKERS: inhalation; contact with the skin.

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

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

TOLUENE

It has a toxic action on the central and peripheral nervous system with encephalopathies and polyneuritis; the irritating action occurs on the skin, conjunctivae, cornea and respiratory system.

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

DICHLOROMETHANE

The acute toxic effect on humans causes cognitive disorders, if inhaled in large doses. At 200-500 ppm, nausea, vomiting, dizziness, paresthesia, fatigue and headache appear. Skin contact causes pain, which soon disappears without leaving any burns. Prolonged contact may cause chemical burns. Contact with the eyes causes superficial lesions of the cornea. Cases of dermatosis may ensue from repeated contact.

CYCLOHEXANE

**4110023020 - Nitro diluent for washing**

It is irritating to the skin and mucous membranes, and can be absorbed by the skin; the neuro-damaging action can occur at high doses and is largely due to cyclohexanone, its metabolite.

Interactive effects**TOLUENE**

Some medicines or other industrial products can interfere with the metabolism of toluene.

**CYCLOHEXANE**

The substance may enhance the effects of agents such as tri-ortho-cresyl phosphate (TOCP).

ACUTE TOXICITY

|  |             |
|--|-------------|
| ATE (Inhalation - mists / powders) of the mixture: | > 5 mg/l    |
| 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 |

**TOLUENE**

|                            |                    |
|----------------------------|--------------------|
| LD50 (Dermal):             | 12124 mg/kg Rabbit |
| LD50 (Oral):               | 5580 mg/kg Rat     |
| LC50 (Inhalation vapours): | 28,1 mg/l/4h Rat   |

**METHANOL**

|                            |  |
|----------------------------|--|
| ATE (Dermal):              | 300 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) |
| ATE (Oral):                | 100 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): | > 87,6 mg/l/4h Rat   |
| ATE (Inhalation vapours):  | 3 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)    |

**DICHLOROMETHANE**

|                            |                |
|----------------------------|----------------|
| LC50 (Inhalation vapours): | 86 mg/l/4h Rat |
|----------------------------|----------------|

**ETHANOL**

|                            |                  |
|----------------------------|------------------|
| LD50 (Oral):               | > 5000 mg/kg Rat |
| LC50 (Inhalation vapours): | 117 mg/l/4h Rat  |

**Metilformiato**

|                                  |   |
|----------------------------------|---|
| LD50 (Dermal):                   | > 4000 mg/kg  |
| ATE (Dermal):                    | 300 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):                     | 1500 mg/kg  |
| ATE (Oral):                      | 100 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 mists/powders): | 5,2 mg/l/4h   |
| ATE (Inhalation mists/powders):  | 0,501 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) |

**TETRAHYDROFURAN**

|                            |            |
|----------------------------|------------|
| LD50 (Oral):               | 1650 mg/kg |
| LC50 (Inhalation vapours): | 60 mg/l    |

**Hydrocarbons, c6, n-alkans, isoalkans, cyclists, rich in N-Esano**

|              |            |
|--------------|------------|
| LD50 (Oral): | > 25 mg/kg |
|--------------|------------|

**CYCLOHEXANE**

|                |                     |
|----------------|---------------------|
| LD50 (Dermal): | > 2000 mg/kg Rabbit |
|----------------|---------------------|

|  |                  |                       |
|--|------------------|-----------------------|
| <b>Meccanocar Italia S.r.l.</b>  |                  | Revision nr. 1        |
|  |                  | Dated 11/06/2025      |
|  |                  | First compilation     |
| <b>4110023020 - Nitro diluent for washing</b>  |                  | Printed on 13/06/2025 |
|  |                  | Page n. 22/38         |
| <br>   |                  |                       |
| LD50 (Oral):   | > 5000 mg/kg Rat |                       |
| LC50 (Inhalation vapours):   | 13,9 mg/l/4h Rat |                       |
| <br>   |                  |                       |
| TOLUENE  |                  |                       |
| Method: Equivalent or similar to EU Method B.1   |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rat (Sprague-Dawley Cobb; male)   |                  |                       |
| Route of exposure: Oral  |                  |                       |
| Results: LD50=5580 mg/kg bw  |                  |                       |
| Method: Equivalent or similar to OECD 403  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rat (Sprague-Dawley; male/female)   |                  |                       |
| Route of exposure: Inhalation (vapours)  |                  |                       |
| Results: LC50=25.7 mg/L air  |                  |                       |
| Method: Not indicated  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rabbit  |                  |                       |
| Route of exposure: Dermal  |                  |                       |
| Results: LD50>5000 mg/kg bw  |                  |                       |
| Bibliographic reference: Range-finding toxicity data: List VII, Smyth HF, Carpenter CP, Weil CS, Pozzani UC, Streigel JA and Nycum JS (1969) |                  |                       |
| <br>   |                  |                       |
| METHYL ACETATE   |                  |                       |
| Method: Equivalent or similar to OECD 401  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rat (Carworth-Wistar; male)   |                  |                       |
| Route of exposure: Oral  |                  |                       |
| Results: LD50=6482 mg/kg bw  |                  |                       |
| Method: Not indicated  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rabbit (Albino; male/female)  |                  |                       |
| Route of exposure: Inhalation (vapours)  |                  |                       |
| Results: Not indicated   |                  |                       |
| Method: OECD 402   |                  |                       |
| Reliability: 1   |                  |                       |
| Species: Rat (Wistar; male/female)   |                  |                       |
| Route of exposure: Dermal  |                  |                       |
| Results: LD50>2000 mg/kg bw  |                  |                       |
| <br>   |                  |                       |
| ACETONE  |                  |                       |
| Method: Not indicated  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rat (Sprague-Dawley)  |                  |                       |
| Route of exposure: Oral  |                  |                       |
| Results: LD50=5800 mg/kg bw  |                  |                       |
| Bibliographical reference: Acetone potentiation of acute acetonitrile toxicity, Freeman JJ, Hayes EP (1985)                                  |                  |                       |
| <br>   |                  |                       |
| ETHYL ACETATE  |                  |                       |
| Method: Multi-Substance Rule for the Testing of Neurotoxicity 40 CFR Part 799 (58 FR 40262)  |                  |                       |
| Reliability: 1   |                  |                       |
| Species: Rat (Sprague-Dawley; male/female)   |                  |                       |
| Route of exposure: Inhalation (vapours)  |                  |                       |
| Results: Negative  |                  |                       |
| Method: Not indicated  |                  |                       |
| Reliability: 2   |                  |                       |
| Species: Rabbit (New Zealand White; male)  |                  |                       |
| Route of exposure: Dermal  |                  |                       |
| Results: LD50 > 20 000 mg/kg bw  |                  |                       |
| <br>   |                  |                       |
| DICHLOROMETHANE  |                  |                       |
| Method: OECD 401   |                  |                       |
| Reliability: 1   |                  |                       |
| Species: Rat (Wistar; male/female)   |                  |                       |
| Route of exposure: Oral  |                  |                       |
| Results: LD50>2000 mg/kg bw  |                  |                       |
| Method: Not indicated  |                  |                       |

|   |   |
|---|---|
| <b>Meccanocar Italia S.r.l.</b>               | Revision nr. 1<br>Dated 11/06/2025<br>First compilation |
| <b>4110023020 - Nitro diluent for washing</b> | Printed on 13/06/2025<br>Page n. 23/38                  |

Reliability: 2  
Species: Mouse (Swiss-Webster)  
Route of exposure: Inhalation (vapours)  
Results: LC50=49000 mg/m3 air  
Bibliographic reference:  
The toxicity and narcotic action of mono-chloromono- bromo-methane with special reference to inorganic and volatile bromide in blood, urine and brain, Svrbely JL, Highman B, Alford WF, (1947)  
Method: OECD 402  
Reliability: 1  
Species: Rat (Wistar; male/female)  
Route of exposure: Dermal  
Results: LD50>2000 mg/kg bw

SKIN CORROSION / IRRITATION

Causes skin irritation

TOLUENE  
Method: EU Method B.4  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Dermal  
Results: Irritating

METHYL ACETATE  
Method: OECD 404  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Dermal  
Results: Non-irritating

METHANOL  
Method: Not indicated  
Reliability: 2  
Species: Rabbit (Vienna White)  
Route of exposure: Dermal  
Results: Non-irritating

DICHLOROMETHANE  
Method: OECD 404  
Reliability: 2  
Species: Rabbit (New Zealand White)  
Route of exposure: Dermal  
Results: Category 2 (irritant)

ETHANOL  
Method: OECD 404  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Dermal  
Results: Non-irritating

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

TOLUENE  
Method: OECD 405  
Reliability: 1  
Species: Rabbit (New Zealand White)  
Route of exposure: Ocular  
Results: Slightly irritating

**4110023020 - Nitro diluent for washing****METHYL ACETATE**

Method: OECD 405

Reliability: 1

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Irritating

**ETHYL ACETATE**

Method: OECD 405

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Non-irritating

**METHANOL**

Method: Not indicated

Reliability: 2

Species: Rabbit

Route of exposure: Ocular

Results: Non-irritating

**DICHLOROMETHANE**

Method: Not indicated

Reliability: 2

Species: Rabbit (New Zealand White)

Route of exposure: Ocular

Results: Category 2 (eye irritant)

Bibliographic reference: Ophthalmic toxicology of dichloromethane, Ballantyne B, Gazzard MF, Swanson DW (1976)

**RESPIRATORY OR SKIN SENSITISATION**

Does not meet the classification criteria for this hazard class

**TOLUENE**

Method: EU Method B.6

Reliability: 1

Species: Guinea pig (Himalayan Albino; female)

Route of exposure: Dermal

Results: Not sensitizing

**ACETONE**

Method: Not indicated

Reliability: 2

Species: Guinea pig (Hartley; female)

Route of exposure: Dermal

Results: Not sensitizing

Bibliographic reference: A new protocol and criteria for quantitative determination of sensitization potencies of chemicals by guinea pig maximization test, Nakamura A, Momma J, Sekiguchi H, Noda T, Yamano T, Kaniwa M-A, Kojima S, Tsuda M, Kurokawa Y (1994 )

**DICHLOROMETHANE**

Method: OECD 429

Reliability: 1

Species: Mouse (CBA; female)

Route of exposure: Dermal

Results: Not classified

**Skin sensitization****ETHYL ACETATE**

Method: OECD 406

Reliability: 1



**4110023020 - Nitro diluent for washing**

Species: Guinea pig (Dunkin-Hartley; female)  
Route of exposure: Dermal  
Results: Not sensitizing

**METHANOL**

Method: Equivalent or similar to OECD 406  
Reliability: 2  
Species: Guinea pig (Pirbright White; female)  
Route of exposure: Dermal  
Results: Not sensitizing

**GERM CELL MUTAGENICITY**

Does not meet the classification criteria for this hazard class

**TOLUENE**

Method: Equivalent or similar to EU Method B.13/14-in vitro test  
Reliability: 2  
Species: S. typhimurium  
Results: Negative with and without metabolic activation  
Method: Not indicated - in vivo test  
Reliability: 2  
Species: Rat  
Route of exposure: Intraperitoneal  
Results: Negative

**METHYL ACETATE**

Method: OECD 471-in vitro test  
Reliability: 1  
Species: S. typhimurium  
Results: Negative with and without metabolic activation  
Method: OECD 474-in vivo test  
Reliability: 1  
Species: Rat (Sprague-Dawley; male/female)  
Route of exposure: Inhalation  
Results: Negative

**ETHYL ACETATE**

Method: Equivalent or similar to OECD 471-in vitro test  
Reliability: 2  
Species: S. typhimurium  
Results: Negative with and without metabolic activation  
Method: Equivalent or similar to OECD 474-in vivo test  
Reliability: 2  
Species: Chinese Hamster (male/female)  
Route of exposure: Oral  
Results: Negative

**DICHLOROMETHANE**

Method: Equivalent or similar to OECD 471-in vitro test  
Reliability: 2  
Species: S. typhimurium  
Results: Positive with and without metabolic activation  
Method: OECD 474-in vivo test  
Reliability: 1  
Species: Mouse (C57BL; male/female)  
Route of exposure: Oral  
Results: Negative

**ETHANOL**

Method: Equivalent or similar to OECD 478-in vivo test  
Reliability: 2  
Species: Mouse (CFLP and Alderley Park; male)

**4110023020 - Nitro diluent for washing**

Route of exposure: Oral

Results: Negative

**CYCLOHEXANE**

Method: The procedure used was based on that reported by Clive and Spector (1975). L5178Y cells were exposed to the test chemical for 4 h in the presence and absence of rat S9 fraction and expression of the induced TK-/- phenotype determined-test in vitro

Reliability: 1

Species: Mouse lymphoma

Results: Negative with and without metabolic activation

Method: Equivalent or similar to OECD 475

Reliability: 1

Species: Rat (CRL:COBS CD(SD)BR; male/female)

Route of exposure: Inhalation (vapours)

Results: Negative

**CARCINOGENICITY**

Suspected of causing cancer

**TOLUENE**

Classified in group 3 (not classifiable as a human carcinogen) by the International Agency for Research on Cancer (IARC) - (IARC, 1999).

The US Environmental Protection Agency (EPA) claims that "the data were found to be inadequate for an assessment of carcinogenic potential".

**ACETONE**

Method: Not indicated

Reliability: 2

Species: Mouse (ICR; female)

Route of exposure: Dermal

Results: Negative

Bibliographic reference: Mouse skin carcinogenicity tests of the flame retardants tris(2,3-dibromopropyl)phosphate, tetrakis(hydroxymethyl)phosphonium chloride, and polyvinyl bromide, Van Duuren BL, Loewengart G, Seldman I, Smith AC, Melchionne S (1974)

**DICHLOROMETHANE**

Classified in Group 2A (probable human carcinogen) by the International Agency for Research on Cancer (IARC).

Classified as "probable carcinogen" by the US National Toxicology Program (NTP) - (US DHHS, 2014).

**REPRODUCTIVE TOXICITY**

Suspected of damaging the unborn child

**ETHYL ACETATE**

Method: Equivalent or similar to OECD 416

Reliability: 1

Species: Mouse (CD-1; male/female)

Route of exposure: Oral

Results: Negative

Method: Equivalent or similar to OECD 414

Reliability: 2

Species: Rat (Sprague-Dawley)

Route of exposure: Inhalation

Results: Negative

**Adverse effects on sexual function and fertility****TOLUENE**

Method: Not indicated

Reliability: 2

Species: Rat (Sprague\_Dawley; male/female)

Route of exposure: Inhalation (vapours)

Results: Negative, NOAEC (fertility)=600 ppm

Bibliographic reference: Reproductive and developmental toxicity studies of toluene II. Effects of inhalation exposure on fertility in rats, Ono A, Sekita K,

**4110023020 - Nitro diluent for washing**

Ogawa Y, Hirose A, Suzuki S, Saito M, Naito K, Kaneko T, Furuya T, Kawashima K, Yasuhara K, Matsumoto K, Tanaka S, Inoue T and Kurokawa Y (1996)

**DICHLOROMETHANE**

Method: Equivalent or similar to OECD 416

Reliability: 1

Species: Rat (Fischer 344; male/female)

Route of exposure: Inhalation (vapours)

Results: Negative, NOAEC (fertility)  $\geq$  1500 ppm

**CYCLOHEXANE**

Method: Equivalent or similar to OECD 416

Reliability: 1

Species: Rat (CRL:COBS CD(SD)BR; male/female)

Route of exposure: Inhalation (vapours)

Results: NOAEC (fertility) 500 - 2 000 ppm

Adverse effects on development of the offspring**TOLUENE**

Method: Not indicated

Reliability: 2

Species: Rat (Wistar)

Route of exposure: Inhalation (vapours)

Results: Negative, NOAEC (development) = 600 ppm

Bibliographic reference: Postnatal development and behavior of Wistar rats after prenatal toluene exposure, Thiel R and Chahoud I (1997)

**ACETONE**

Method: Equivalent or similar to OECD 414

Reliability: 1

Species: Rat (Sprague-Dawley)

Route of exposure: Inhalation (vapours)

Results: Negative, NOAEC (development) = 2200 ppm

**DICHLOROMETHANE**

Method: Equivalent or similar to OECD 414

Reliability: 2

Species: Rat (Sprague-Dawley) and mouse (Swiss-Webster)

Route of exposure: Inhalation (vapours)

Results: NOAEC (development)  $\geq$  4300 mg/m<sup>3</sup> air

**ETHANOL**

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley)

Route of exposure: Oral

Results: NOAEL (development) 5.2 g ethanol/kg bw/day

Bibliographic reference: Prenatal ethanol exposure has differential effects on fetal growth and skeletal ossification, Simpson ME, Duggal S, & Keiver K (2005)

**CYCLOHEXANE**

Method: Equivalent or similar to OECD 414

Reliability: 1

Species: Rat (CRL:COBS CD(SD)BR)

Route of exposure: Inhalation (vapours)

Results: NOAEC (development) 7 000 ppm

STOT - SINGLE EXPOSURE

May cause damage to organs

May cause drowsiness or dizziness

**TOLUENE**  
On the basis of available data and expert judgement, the substance is classified in the toxicity class for target organisms for single exposure.

**METHYL ACETATE**  
Based on available data and expert judgment, the substance is classified in the target organ toxicity class for single exposure.

**ACETONE**  
Based on available data and expert judgment, the substance is classified in the single exposure target organ toxicity class.

**ETHYL ACETATE**  
Based on available data and expert judgment, the substance is classified in the single exposure target organ toxicity class.

**METHANOL**  
Based on available data and expert judgment, the substance is classified in the single exposure target organ toxicity class.

**DICHLOROMETHANE**  
Based on available data and expert judgment, the substance is not classified in the single exposure target organ toxicity class.

**ETHANOL**  
Based on available data and expert judgment, the substance is not classified in the single exposure target organ toxicity class.

**CYCLOHEXANE**  
Based on available data and expert judgment, the substance is classified in the single exposure target organ toxicity class.

Target organs

**TOLUENE**  
Central nervous system

**METHYL ACETATE**  
Central nervous system

**ACETONE**  
Narcotic effects

**ETHYL ACETATE**  
Central nervous system.

**METHANOL**  
Optic nerve (nervus opticus), central nervous system

**CYCLOHEXANE**  
Central nervous system

Route of exposure

**TOLUENE**  
Inhalation

**ACETONE**  
Inhalation

**ETHYL ACETATE**  
Inhalation.

**CYCLOHEXANE**

**4110023020 - Nitro diluent for washing**

Inhalation

STOT - REPEATED EXPOSURE

May cause damage to organs

**TOLUENE**

Method: Equivalent or similar to EU Method B.26

Reliability: 1

Species: Rat (Fischer 344; male/female)

Route of exposure: Oral

Results: NOAEL=625 mg/kg bw/day

Method: EU Method B.29

Reliability: 1

Species: Rat (F344/N; male/female)

Route of exposure: Inhalation (vapours)

Results: NOAEC=625 ppm

**METHYL ACETATE**

Method: OECD 412

Reliability: 1

Species: Rat (Sprague-Dawley; male/female)

Route of exposure: Inhalation (aerosol)

Results: NOAEC=350 ppm

**ACETONE**

Method: Equivalent or similar to OECD 408

Reliability: 1

Species: Rat (Fischer 344; male/female)

Route of exposure: Oral

Results: Negative, NOAEL=10000 ppm

Method: Not indicated

Reliability: 2

Species: Rat (Sprague-Dawley; male)

Route of exposure: Inhalation

Results: Negative, NOAEC=19000 ppm

Bibliographic reference: Evaluation of toluene and acetone inhalant abuse. II. Model development and toxicology, Bruckner JV, Peterson RG (1981)

Method: Not indicated

Reliability: 2

Species: Not indicated

Route of exposure: Dermal

Results: Negative

Bibliographic reference: Pathology of aging female SENCAR mice used as controls in skin two-stage carcinogenesis studies, Ward J, Quander RD, Wenk M, Spangler E (1986)

**ETHYL ACETATE**

Method: Equivalent or similar to EPA OTS 795.2600

Reliability: 2

Species: Rat (Sprague-Dawley; male/female)

Route of exposure: Oral

Results: NOAEL 900 mg/kg bw/day

Method: EPA OTS 798.2450

Reliability: 1

Species: Rat (CrI:CD®BR; male/female)

Route of exposure: Inhalation

Results: LOEC 350 ppm

**METHANOL**

Based on available data and expert judgment, the substance is not classified in the target organ toxicity class for prolonged or repeated exposure.

**DICHLOROMETHANE**

Method: Equivalent or similar to OECD 453

Reliability: 2

**4110023020 - Nitro diluent for washing**

Species: Rat (Fischer 344; male/female)  
Route of exposure: Oral  
Results: Negative, NOAEL=6 mg/kg bw/day  
Method: Equivalent or similar to OECD 453  
Reliability: 1  
Species: Rat (Sprague-Dawley; male/female)  
Route of exposure: Inhalation (vapours)  
Results: Negative, NOAEC=200 ppm

**ETHANOL**

Method: Equivalent or similar to OECD 408  
Reliability: 2  
Species: Rat (Sprague-Dawley; male/female)  
Route of exposure: Oral  
Results: NOAEL 1 730 mg/kg bw/day

**CYCLOHEXANE**

Method: EPA OPPTS 870.3465  
Reliability: 1  
Species: Mouse (CrI:CD-1 BR; male/female)  
Route of exposure: Inhalation (vapours)  
Results: NOAEC 7000 ppm

Target organs

**TOLUENE**  
Neurological

Route of exposure

**TOLUENE**  
Inhalation

ASPIRATION HAZARD

Toxic for aspiration

**11.2. Information on other hazards**

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

**SECTION 12. Ecological information**

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

**12.1. Toxicity****TOLUENE**

|   |               |
|---|---------------|
| LC50 - for Fish                         | 5,5 mg/l/96h  |
| EC50 - for Crustacea                    | 3,78 mg/l/48h |
| EC50 - for Algae / Aquatic Plants       | 134 mg/l/72h  |
| EC10 for Algae / Aquatic Plants         | 10 mg/l/72h   |
| Chronic NOEC for Algae / Aquatic Plants | 10 mg/l       |

**CYCLOHEXANE**

|                 |                                   |
|-----------------|-----------------------------------|
| LC50 - for Fish | 4,53 mg/l/96h Pimephales promelas |
|-----------------|-----------------------------------|

|  |  |                       |
|--|--|-----------------------|
| Meccanocar Italia S.r.l.   |  | Revision nr. 1        |
|  |  | Dated 11/06/2025      |
|  |  | First compilation     |
| 4110023020 - Nitro diluent for washing   |  | Printed on 13/06/2025 |
|  |  | Page n. 31/38         |
| <p>EC50 - for Crustacea 3,89 mg/l/48h Daphnia magna</p> <p>EC50 - for Algae / Aquatic Plants 32,7 mg/l/72h Chlorella vulgaris</p> <p>HEPTANE</p> <p>LC50 - for Fish 375 mg/l/96h Tilapia mossambica</p> <p>EC50 - for Crustacea 82,5 mg/l/48h Daphnia magna</p> <p>EC50 - for Algae / Aquatic Plants 1,5 mg/l/72h Algae</p> <p>DICHLOROMETHANE</p> <p>EC10 for Algae / Aquatic Plants 550 mg/l/72h</p> <p>Chronic NOEC for Algae / Aquatic Plants 550 mg/l</p> <p>METHANOL</p> <p>LC50 - for Fish 15400 mg/l/96h</p> <p>EC50 - for Algae / Aquatic Plants 22000 mg/l/72h</p> <p>METHYL ACETATE</p> <p>LC50 - for Fish 250 mg/l/96h</p> <p>EC50 - for Crustacea 1026,7 mg/l/48h</p> <p>EC50 - for Algae / Aquatic Plants 120 mg/l/72h</p> <p>EC10 for Algae / Aquatic Plants 120 mg/l/72h</p> <p>Chronic NOEC for Algae / Aquatic Plants 120 mg/l</p> <p><b>12.2. Persistence and degradability</b></p> <p>TOLUENE</p> <p>Easily degradable in water.</p> <p>METHYL ACETATE</p> <p>Easily degradable in water, 70% in 28 days.</p> <p>ACETONE</p> <p>Easily degradable in water, 90.9% in 28 days.</p> <p>ETHYL ACETATE</p> <p>Rapidly degradable, 60% in 10 days.</p> <p>2-Metilpentano</p> <p>The paraffin hydroarbons present can be considered degradable in the water and air. They primarily distribute in the air. The little that distributes in water and does not biodegrade tends to accumulate in fish.</p> <p>Mixture of isomers of Esano</p> <p>The paraffin hydroarbons present can be considered degradable in the water and air. They primarily distribute in the air. The little that distributes in water and does not biodegrade tends to accumulate in fish.</p> <p>METHANOL</p> <p>Easily degradable in water, 95% in 20 days.</p> <p>DICHLOROMETHANE</p> <p>Easily degradable in water, 81% in 14 days.</p> <p>ETHANOL</p> <p>Rapidly biodegradable, 60% in 5 days.</p> <p>CYCLOHEXANE</p> <p>Rapidly degradable, 77% in 21 days.</p> <p>ETHYL ACETATE</p> <p>Solubility in water &gt; 10000 mg/l</p> <p>Rapidly degradable</p> <p>TOLUENE</p> <p>Solubility in water 100 - 1000 mg/l</p> <p>Rapidly degradable</p> <p>CYCLOHEXANE</p> |  |                       |

**4110023020 - Nitro diluent for washing**

Solubility in water 0,1 - 100 mg/l

Rapidly degradable  
ACETONE

Rapidly degradable  
HEPTANE

Solubility in water 0,1 - 100 mg/l

Rapidly degradable  
DICHLOROMETHANE

Solubility in water 13200 mg/l

Rapidly degradable  
METHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
ETHANOL

Solubility in water 1000 - 10000 mg/l

Rapidly degradable  
TETRAHYDROFURAN

Solubility in water 1000 - 10000 mg/l

NOT rapidly degradable

METHYL ACETATE

Solubility in water 243500 mg/l

Rapidly degradable

**12.3. Bioaccumulative potential**

ETHYL ACETATE

Partition coefficient: n-octanol/water 0,68

BCF 30

TOLUENE

Partition coefficient: n-octanol/water 2,73

BCF 90

CYCLOHEXANE

Partition coefficient: n-octanol/water 3,44

ACETONE

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

BCF 3

HEPTANE

Partition coefficient: n-octanol/water 4,5

BCF 552

DICHLOROMETHANE

Partition coefficient: n-octanol/water 1,25

BCF 2



**4110023020 - Nitro diluent for washing****METHANOL**

Partition coefficient: n-octanol/water -0,77

BCF 0,2

**ETHANOL**

Partition coefficient: n-octanol/water -0,35

**TETRAHYDROFURAN**

Partition coefficient: n-octanol/water 0,45

**METHYL ACETATE**

Partition coefficient: n-octanol/water 0,18

**12.4. Mobility in soil**

Information not available

**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.

**CONTAMINATED PACKAGING**

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

**METHYL ACETATE**

Dispose of according to regulations by incineration in a special waste incinerator. Small quantities can be disposed of by incineration in an authorized facility. Comply with local/state/federal regulations.

**ACETONE**

Incinerate as hazardous waste in accordance with applicable local, state and federal regulations. Do not throw in household waste.

**ETHYL ACETATE**

Dispose of as hazardous waste. Recover or recycle if possible. Otherwise incineration. Dispose of according to local regulations.  
Container disposal: empty the container completely. Empty containers may contain highly flammable residues. Do not cut, grind, puncture, weld or dispose of containers unless adequate precautions have been taken against this hazard. Do not remove container labels until cleaned. Send to drum salvage or metal salvage.

DICHLOROMETHANE  
The assignment of a waste code number, according to the European Waste Catalogue, should be carried out in accordance with the regional waste disposal company. After use, this solvent must be taken to waste disposal or waste disposal, any mixture of foreign bodies or other solvents is prohibited after use.

**SECTION 14. Transport information**

**14.1. UN number or ID number**

ADR / RID, IMDG, IATA: UN 1263

**14.2. UN proper shipping name**

ADR / RID: PAINT or PAINT RELATED MATERIAL  
IMDG: PAINT or PAINT RELATED MATERIAL  
IATA: PAINT or PAINT RELATED MATERIAL

**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: II

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

|            |  |                          |                                |
|------------|--|--------------------------|--------------------------------|
| ADR / RID: | HIN - Kemler: 33   | Limited Quantities: 5 It | Tunnel restriction code: (D/E) |
| IMDG:      | Special provision: 163, 367, 640(C-D), 650<br>EMS: F-E, <u>S-E</u> | Limited Quantities: 5 It |                                |

|   |  |  |   |
|---|--|--|---|
| <b>Meccanocar Italia S.r.l.</b>               |  |  | Revision nr. 1<br>Dated 11/06/2025<br>First compilation |
| <b>4110023020 - Nitro diluent for washing</b> |  |  | Printed on 13/06/2025<br>Page n. 35/38                  |

  

|       |                    |                        |                             |
|-------|--------------------|------------------------|-----------------------------|
| IATA: | Cargo:             | Maximum quantity: 60 L | Packaging instructions: 364 |
|       | Passengers:        | Maximum quantity: 5 L  | Packaging instructions: 353 |
|       | Special provision: | A3, A72, A192          |                             |

  

**14.7. Maritime transport in bulk according to IMO instruments**

Information not relevant

  

**SECTION 15. Regulatory information**

  

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

Seveso Category - Directive 2012/18/EU: P5c

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

|                |        |  |
|----------------|--------|--|
| <u>Product</u> |        |  |
| Point          | 3 - 40 |  |

  

|                            |    |   |
|----------------------------|----|---|
| <u>Contained substance</u> |    |   |
| Point                      | 75 |   |
| Point                      | 69 | METHANOL REACH Reg.: 01-2119392409-28-XXXX        |
| Point                      | 59 | DICHLOROMETHANE REACH Reg.: 01-2119480404-41-XXXX |
| Point                      | 57 | CYCLOHEXANE REACH Reg.: 01-2119463273-41-XXXX     |
| Point                      | 48 | TOLUENE REACH Reg.: 01-2119471310-51-XXXX         |

  

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

Regulated explosives precursor  
The acquisition, introduction, possession or use of that regulated explosives precursor by members of the general public is subject to reporting obligations as set out in Article 9.  
All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

**4110023020 - Nitro diluent for washing**

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. 1</b>      | Flammable liquid, category 1                                       |
| <b>Flam. Liq. 2</b>      | Flammable liquid, category 2                                       |
| <b>Carc. 2</b>           | Carcinogenicity, category 2  |
| <b>Repr. 2</b>           | Reproductive toxicity, category 2                                  |
| <b>Acute Tox. 3</b>      | Acute toxicity, category 3   |
| <b>STOT SE 1</b>         | Specific target organ toxicity - single exposure, category 1       |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4   |
| <b>Asp. Tox. 1</b>       | Aspiration hazard, category 1                                      |
| <b>STOT RE 2</b>         | Specific target organ toxicity - repeated exposure, category 2     |
| <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>STOT SE 2</b>         | Specific target organ toxicity - single exposure, category 2       |
| <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>H224</b>              | Extremely flammable liquid and vapour.                             |
| <b>H225</b>              | Highly flammable liquid and vapour.                                |
| <b>H351</b>              | Suspected of causing cancer.                                       |
| <b>H361d</b>             | Suspected of damaging the unborn child.                            |
| <b>H361f</b>             | Suspected of damaging fertility.                                   |

**4110023020 - Nitro diluent for washing**

|               |  |
|---------------|--|
| <b>H301</b>   | Toxic if swallowed.  |
| <b>H311</b>   | Toxic in contact with skin.  |
| <b>H331</b>   | Toxic if inhaled.  |
| <b>H370</b>   | Causes damage to organs.   |
| <b>H302</b>   | Harmful if swallowed.  |
| <b>H304</b>   | May be fatal if swallowed and enters airways.                      |
| <b>H373</b>   | May cause damage to organs through prolonged or repeated exposure. |
| <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.                                 |
| <b>H371</b>   | May cause damage to organs.  |
| <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>EUH019</b> | May form explosive peroxides.                                      |
| <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

**4110023020 - Nitro diluent for washing**

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4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
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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.