



N.P.T. S.R.L.

## COLLA PER TESSUTI E JEANS

Revision nr. 3

Dated 21/11/2023

Printed on 18/11/2024

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Replaced revision:2 (Printed on: 07/08/2023)

# 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

Product name

COLLA PER TESSUTI E JEANS

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

Intended use

Polyvinyl acetate based adhesive in water dispersion for "do-it-yourself" bonding .

Consumer uses [SU21] - Adhesive/Sealant

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

Name

N.P.T. S.R.L.

Full address

via Guido Rossa 2

District and Country

40053 Valsamoggia - Loc. Crespellano (BO)

Italia

Tel. +39 051 969109

Fax +39 051 969837

e-mail address of the competent person

responsible for the Safety Data Sheet

infoSDS@nptsrl.com

### 1.4. Emergency telephone number

For urgent inquiries refer to

Please contact your near local poison control center

Laboratories and manufactory plant - Villanova d'Ardenghi (PV)

+39 0382 400140 (available from Monday to Friday, only in the following office hours: 8.30-12.30, 13.30-17.00). Laboratories and manufactory plant VALSAMOGGIA (BO) +39 051969068 office hours (8.30-13; 14-17.30), from Monday to Thursday

## SECTION 2. Hazards identification

### 2.1. Classification of the substance or mixture

The product is not classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP).

However, since the product contains hazardous substances in concentrations such as to be declared in section no. 3, it requires a safety data sheet with appropriate information, compliant to (EU) Regulation 2020/878.

Hazard classification and indication:

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### 2.2. Label elements

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

Hazard pictograms:

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Signal words:

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Hazard statements:

**EUH210** Safety data sheet available on request.**EUH208** Contains: Reaction mass of: 5-Cloro-2-Metil-2H-Isatiazol-3-One [EC NO. 247-500-7] and 2-Metil-2H-Isatiazol-3-One [EC NO. 220-239-6] (3: 1)  
May produce an allergic reaction.

Precautionary statements: --

**2.3. Other hazards**On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.**SECTION 3. Composition/information on ingredients****3.2. Mixtures**

Contains:

| Identification                                                                                                                          | x = Conc. %         | Classification (EC) 1272/2008 (CLP)                                                                                                                                                                        |
|-----------------------------------------------------------------------------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>2-BUTOXYETHANOL</b>                                                                                                                  |                     |                                                                                                                                                                                                            |
| INDEX 603-014-00-0                                                                                                                      | $0,5 \leq x < 0,6$  | Acute Tox. 3 H331, Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315                                                                                                                                |
| EC 203-905-0                                                                                                                            |                     | inhalation: ATE = 3 mg/L (Vapours) oral: ATE = 1200 mg/kg bw                                                                                                                                               |
| CAS 111-76-2                                                                                                                            |                     |                                                                                                                                                                                                            |
| REACH Reg. 01-2119475108-36                                                                                                             |                     |                                                                                                                                                                                                            |
| <b>POTASSIUM HYDROXIDE</b>                                                                                                              |                     |                                                                                                                                                                                                            |
| INDEX 019-002-00-8                                                                                                                      | $0,2 \leq x < 0,25$ | Met. Corr. 1 H290, Acute Tox. 4 H302, Skin Corr. 1A H314, Eye Dam. 1 H318                                                                                                                                  |
| EC 215-181-3                                                                                                                            |                     | Skin Corr. 1B H314: $\geq 2\%$ - $< 5\%$ , Skin Corr. 1C H314: $\geq 2\%$ - $< 5\%$ , Skin Irrit. 2 H315: $\geq 0,5\%$ - $< 2\%$ , Eye Dam. 1 H318: $\geq 2\%$ , Eye Irrit. 2 H319: $\geq 0,5\%$ - $< 2\%$ |
| CAS 1310-58-3                                                                                                                           |                     | ATE Oral: 500 mg/kg                                                                                                                                                                                        |
| REACH Reg. 01-2119487136-33                                                                                                             |                     |                                                                                                                                                                                                            |
| <b>Reaction mass of: 5-Cloro-2-Metil-2H-Isatiazol-3-One [EC NO. 247-500-7] and 2-Metil-2H-Isatiazol-3-One [EC NO. 220-239-6] (3: 1)</b> |                     |                                                                                                                                                                                                            |
| INDEX 613-167-00-5                                                                                                                      | $0 < x < 0,0015$    | Acute Tox. 2 H310, Acute Tox. 2 H330, Acute Tox. 3 H301, Skin Corr. 1B H314, Eye Dam. 1 H318, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=100, Aquatic Chronic 1 H410 M=100                                  |
| EC -                                                                                                                                    |                     | Skin Corr. 1B H314: $\geq 0,6\%$ , Skin Irrit. 2 H315: $\geq 0,06\%$ - $< 0,6\%$ , Skin Sens. 1 H317: $\geq 0,0015\%$ , Eye Dam. 1 H318: $\geq 0,6\%$ , Eye Irrit. 2 H319: $\geq 0,06\%$ - $< 0,6\%$       |
| CAS 55965-84-9                                                                                                                          |                     | ATE Oral: 100 mg/kg, ATE Dermal: 50,001 mg/kg, ATE Inhalation mists/powders: 0,051 mg/l, ATE Inhalation vapours: 0,501 mg/l                                                                                |
| REACH Reg. 01-2120764691-48                                                                                                             |                     |                                                                                                                                                                                                            |

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



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## SECTION 4. First aid measures

### 4.1. Description of first aid measures

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

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. 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.

Most important symptoms and effects, both acute and delayed: there is no other information.

#### 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

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

#### UNSUITABLE EXTINGUISHING EQUIPMENT

None in particular.

### 5.2. Special hazards arising from the substance or mixture

#### HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Do not breathe combustion products.

### 5.3. Advice for firefighters



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**GENERAL INFORMATION**

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

**SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

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

**SECTION 6. Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Block the leakage if there is no hazard.

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

**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**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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

Store in a dry place between 5 and 25 ° C, protect from frost.

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

**2-BUTOXYETHANOL**

Suitable packaging material: steel, stainless steel, nickel, polyethylene, polypropylene, glass.

Unsuitable material for packaging: aluminium.

Storage temperature: <= 35°C

Storage class TRGS 510 (Germany): 10

**7.3. Specific end use(s)**

Information not available

**SECTION 8. Exposure controls/personal protection**



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### 8.1. Control parameters

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

#### Regulatory references:

|     |                 |                                                                                                                                                                                                                                                                                                                                                         |
|-----|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BGR | България        | НАРЕДБА № 13 ОТ 30 ДЕКЕМВРИ 2003 Г. ЗА ЗАЩИТА НА РАБОТЕЩИТЕ ОТ РИСКОВЕ, СВЪРЗАНИ С ЕКСПОЗИЦИЯ НА ХИМИЧНИ АГЕНТИ ПРИ РАБОТА (изм. ДВ. бр.5 от 17 Януари 2020г.)                                                                                                                                                                                          |
| CZE | Česká Republika | NAŘÍZENÍ VLÁDY ze dne 10. května 2021, kterým se mění nařízení vlády č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví při práci                                                                                                                                                                                                               |
| DEU | Deutschland     | Forschungsgemeinschaft MAK- und BAT-Werte-Liste 2022 Ständige Senatskommission zur Prüfung gesundheitsschädlicher Arbeitsstoffe Mitteilung 58                                                                                                                                                                                                           |
| DNK | Danmark         | Bekendtgørelse om grænseværdier for stoffer og materialer - BEK nr 1458 af 13/12/2019                                                                                                                                                                                                                                                                   |
| ESP | España          | Límites de exposición profesional para agentes químicos en España 2023                                                                                                                                                                                                                                                                                  |
| FRA | France          | Valeurs limites d'exposition professionnelle aux agents chimiques en FranceDécret n° 2021-1849 du 28 décembre 2021                                                                                                                                                                                                                                      |
| FIN | Suomi           | HTP-VÄRDEN 2020. Koncentrationer som befunnits skadliga. SOCIAL - OCH HÄLSOVÄRDSMINISTERIETS PUBLIKATIONER 2020:25                                                                                                                                                                                                                                      |
| GRC | Ελλάδα          | Π.Δ. 26/2020 (ΦΕΚ 50/Α' 6.3.2020) Εναρμόνιση της ελληνικής νομοθεσίας προς τις διατάξεις των οδηγιών 2017/2398/ΕΕ, 2019/130/ΕΕ και 2019/983/ΕΕ «για την τροποποίηση της οδηγίας 2004/37/ΕΚ ``σχετικά με την προστασία των εργαζομένων από τους κινδύνους που συνδέονται με την έκθεση σε καρκινογόνους ή μεταλλαξιγόνους παράγοντες κατά την εργασία``» |
| HUN | Magyarország    | Az innovációért és technológiáért felelős miniszter 5/2020. (II. 6.) ITM rendelete a kémiai kóroki tényezők hatásának kitett munkavállalók egészségének és biztonságának védelméről                                                                                                                                                                     |
| HRV | Hrvatska        | Pravilnik o izmjenama i dopunama Pravilnika o zaštiti radnika od izloženosti opasnimkemikalijama na radu, graničnim vrijednostima izloženosti i biološkim graničnim vrijednostima (NN 1/2021)                                                                                                                                                           |
| ITA | Italia          | Decreto Legislativo 9 Aprile 2008, n.81                                                                                                                                                                                                                                                                                                                 |
| 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                                                                                                               |
| NLD | Nederland       | Arbeidsomstandighedenregeling. Lijst van wettelijke grenswaarden op grond van de artikelen 4.3, eerste lid, en 4.16, eerste lid, van het Arbeidsomstandighedenbesluit                                                                                                                                                                                   |
| PRT | Portugal        | Decreto-Lei n.º 1/2021 de 6 de janeiro, valores-limite de exposição profissional indicativos para os agentes químicos. Decreto-Lei n.º 35/2020 de 13 de julho, proteção dos trabalhadores contra os riscos ligados à exposição durante o trabalho a agentes cancerígenos ou mutagénicos                                                                 |
| POL | Polska          | Rozporządzenie ministra rozwoju, pracy i technologii z dnia 18 lutego 2021 r. Zmieniające rozporządzenie w sprawie najwyższych dopuszczalnych stężeń i natężeń czynników szkodliwych dla zdrowia w środowisku pracy                                                                                                                                     |
| SWE | Sverige         | Hygieniska gränsvärden, Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden (AFS 2018:1)                                                                                                                                                                                                                                         |
| 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                                                                                                                                                                                                                                                                                                                                              |

### POTASSIUM HYDROXIDE

#### Threshold Limit Value

| Type      | Country | TWA/8h | STEL/15min | Remarks / Observations |
|-----------|---------|--------|------------|------------------------|
|           |         | mg/m3  | ppm        |                        |
| TLV       | BGR     | 2      |            |                        |
| TLV       | CZE     | 1      | 2          |                        |
| TLV       | DNK     | 2      |            |                        |
| VLA       | ESP     |        | 2          |                        |
| VLEP      | FRA     |        | 2          |                        |
| HTP       | FIN     |        | 2 (C)      |                        |
| TLV       | GRC     | 2      | 2          |                        |
| AK        | HUN     | 2      | 2          |                        |
| GVI/KGVI  | HRV     |        | 2          |                        |
| NDS/NDSch | POL     | 0,5    | 1          |                        |



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WEL GBR 2

OEL EU 2 2 0,87

TLV-ACGIH 2 (C)

Health - Derived no-effect level - DNEL / DMEL

| Effects on consumers |             |                |               |                  | Effects on workers |                |               |                  |
|----------------------|-------------|----------------|---------------|------------------|--------------------|----------------|---------------|------------------|
| Route of exposure    | Acute local | Acute systemic | Chronic local | Chronic systemic | Acute local        | Acute systemic | Chronic local | Chronic systemic |
| Inhalation           |             |                | 1 mg/m3       | VND              |                    |                | 1 mg/m3       | VND              |

2-BUTOXYETHANOL  
Threshold Limit Value

| Type      | Country | TWA/8h | STEL/15min |       | Remarks / Observations |       |
|-----------|---------|--------|------------|-------|------------------------|-------|
|           |         | mg/m3  | ppm        | mg/m3 | ppm                    |       |
| TLV       | BGR     | 98     | 20         | 246   | 50                     | SKIN  |
| TLV       | CZE     | 100    | 20,4       | 200   | 4,8                    |       |
| MAK       | DEU     | 49     | 10         | 98    | 20                     | pelle |
| TLV       | DNK     | 98     | 20         | 246   | 50                     |       |
| VLA       | ESP     | 98     | 20         | 245   | 50                     | pelle |
| VLEP      | FRA     | 49     | 10         | 246   | 50                     | pelle |
| TLV       | GRC     | 120    | 25         |       |                        |       |
| AK        | HUN     | 98     | 20         | 246   | 50                     |       |
| VLEP      | ITA     | 98     | 20         | 246   | 50                     | SKIN  |
| TLV       | NOR     | 50     | 10         |       |                        |       |
| TGG       | NLD     | 100    |            | 246   |                        | SKIN  |
| VLE       | PRT     | 98     | 20         | 246   | 50                     | SKIN  |
| NDS/NDSch | POL     | 98     |            | 200   |                        | SKIN  |
| NGV/KGV   | SWE     | 50     | 10         | 246   | 50                     | pelle |
| OEL       | EU      | 98     | 20         | 246   | 50                     | pelle |
| TLV-ACGIH |         | 97     | 20         |       |                        |       |

Predicted no-effect concentration - PNEC

|                                                       |      |       |
|-------------------------------------------------------|------|-------|
| Normal value in fresh water                           | 8,8  | mg/l  |
| Normal value in marine water                          | 0,88 | mg/l  |
| Normal value for fresh water sediment                 | 34,6 | mg/kg |
| Normal value for marine water sediment                | 3,46 | mg/kg |
| Normal value for water, intermittent release          | 9,1  | mg/l  |
| Normal value of STP microorganisms                    | 463  | mg/l  |
| Normal value for the food chain (secondary poisoning) | 20   | mg/kg |
| Normal value for the terrestrial compartment          | 2,33 | 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                 |             | 26,7 mg/kg bw/d |               | 6,3 mg/kg bw/d   |                    |                |               |                  |
| Inhalation           | 147 mg/m3   | 426 mg/m3       |               | 59 mg/m3         | 246 mg/m3          | 1091 mg/m3     |               | 98 mg/m3         |

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**Legend:**

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

**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.

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

**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 B 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.

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

| Properties                             | Value                     | Information                             |
|----------------------------------------|---------------------------|-----------------------------------------|
| Appearance                             | viscous liquid            |                                         |
| Colour                                 | milky                     |                                         |
| Odour                                  | mild                      |                                         |
| Melting point / freezing point         | 0 °C                      |                                         |
| Initial boiling point                  | 100 °C                    |                                         |
| Flammability                           | not applicable            |                                         |
| Lower explosive limit                  | not available             | Reason for missing data:Non applicabile |
| Upper explosive limit                  | not available             | Reason for missing data:Non applicabile |
| Flash point                            | not applicable            | Remark:La combustione non è mantenuta.  |
| Auto-ignition temperature              | not available             | Reason for missing data:Non applicabile |
| Decomposition temperature              | not determined            |                                         |
| pH                                     | 4                         |                                         |
| Kinematic viscosity                    | > 20,5 mm <sup>2</sup> /s | Temperature: 20 °C                      |
| Dynamic viscosity                      | 20000 mPa*s (Brookfield)  | Temperature: 20 °C                      |
| Solubility                             | miscible with water       |                                         |
| Partition coefficient: n-octanol/water | not determined            |                                         |



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|---------------------------------|----------------|
| Vapour pressure                 | not available  |
| Density and/or relative density | 0,95 - 1,1     |
| 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) | 0,50 % - 5,50  | g/litre                                 |
| Explosive properties       | not available  | Reason for missing data:Non applicabile |
| Oxidising properties       | not applicable |                                         |
| Can pressure:              | Not applicable |                                         |

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

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

#### POTASSIUM HYDROXIDE

- It can develop: heat. Can corrode: metals.

#### 2-BUTOXYETHANOL

Decomposes due to heat.

### 10.2. Chemical stability

No dangerous decomposition products known.

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

### 10.3. Possibility of hazardous reactions

There are no known hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

#### POTASSIUM HYDROXIDE

- It develops hydrogen in contact with: metals. It develops heat in contact with: strong acids. Reacts violently with: water.



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### 2-BUTOXYETHANOL

May react dangerously with: aluminum, oxidizing agents. Forms peroxides with air.

#### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### POTASSIUM HYDROXIDE

- Avoid exposure to: heat sources. Keep separate from: oxidizing agents, acids, flammable substances, halogens, organic substances. Keep away from: lead, aluminum, copper, tin, sulfur, bronz. Absorbs atmospheric CO<sub>2</sub>.

### 2-BUTOXYETHANOL

Avoid exposure to heat sources and open flames.

#### 10.5. Incompatible materials

### 2-BUTOXYETHANOL

Oxidizing agents, acids, bases, amines, ammonia, acid chlorides.

#### 10.6. Hazardous decomposition products

### POTASSIUM HYDROXIDE

- It can develop: flammable gases.

### 2-BUTOXYETHANOL

By reaction with light metals, it can develop hydrogen.

## SECTION 11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

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

##### Metabolism, toxicokinetics, mechanism of action and other information

### 2-BUTOXYETHANOL

Toxicokinetics - This substance is easily absorbed via the following exposure route: Inhalation. Oral. Dermal. Dermal absorption from vapor exposure can



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be significant. Dermal absorption from aqueous solutions may be faster than the pure form. The substance is water soluble and will distribute throughout the body through the bloodstream. The substance is easily metabolised (half-life in humans ~1 hour). The main metabolite is butoxyacetic acid (BAA), although smaller quantities of conjugates (glucuronides and sulfates) are also formed. Most metabolites are excreted via urine. Elimination of metabolites is slow compared to metabolite formation and occurs within hours of exposure. The half-life in humans for elimination of butoxyacetic acid is ~5 hours.

Information on likely routes of exposure

**2-BUTOXYETHANOL**

Moderate toxicity after single ingestion. Inhalation of a highly saturated vapor-air mixture does not represent an acute risk. Virtually non-toxic for single skin contact.

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

**2-BUTOXYETHANOL**

Ingestion can cause weakness, confusion, anxiety, drop in blood pressure and CNS depression with collapse and coma. Exposure to very high aerosol concentrations can cause eye, nose and throat irritation, as well as depression of the central nervous system.

Interactive effects

Information not available

ACUTE TOXICITY

|                                            |                                           |
|--------------------------------------------|-------------------------------------------|
| ATE (Inhalation - vapours) of the mixture: | > 20 mg/l                                 |
| ATE (Oral) of the mixture:                 | Not classified (no significant component) |
| ATE (Dermal) of the mixture:               | Not classified (no significant component) |

**POTASSIUM HYDROXIDE**

|              |               |
|--------------|---------------|
| LD50 (Oral): | 333 mg/kg Rat |
|--------------|---------------|

**2-BUTOXYETHANOL**

|                            |                                      |
|----------------------------|--------------------------------------|
| LD50 (Dermal):             | > 2000 mg/kg Guinea Pig (OECD - 402) |
| LD50 (Oral):               | > 1200 mg/kg Guinea Pig (OECD 401)   |
| LC50 (Inhalation vapours): | > 2,25 mg/l/4h Guinea Pig (OECD 403) |

inhalation: ATE = 3 mg/L (Vapours) oral: ATE = 1200 mg/kg bw

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

**POTASSIUM HYDROXIDE**

- Strongly corrosive on the skin and mucous membranes.

**2-BUTOXYETHANOL**

Irritating to the skin.

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

**POTASSIUM HYDROXIDE**

- Strongly corrosive to the eyes.

**2-BUTOXYETHANOL**

Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:



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Reaction mass of: 5-Cloro-2-Metil-2H-Isatiazol-3-One [EC NO. 247-500-7] and 2-Metil-2H-Isatiazol-3-One [EC NO. 220-239-6] (3: 1)

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

2-BUTOXYETHANOL

Indications of possible carcinogenic effect in animal tests. Concrete proof of a high carcinogenic risk to humans has not yet been provided. IARC Group 3 (not classifiable as human carcinogenicity).

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

**11.2. Information on other hazards**

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

**SECTION 12. Ecological information**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

2-BUTOXYETHANOL

Assessment of aquatic toxicity - The product is most likely not harmful to aquatic organisms. There is a high probability that the product is not chronically harmful to aquatic organisms. The correct introduction of low concentrations into a biological purification plant should not compromise the degradation activity of the activated sludge.

POTASSIUM HYDROXIDE

LC50 - for Fish

80 mg/l/96h Pesce - *Gambusia affinis*

2-BUTOXYETHANOL

LC50 - for Fish

1474 mg/l/96h *Oncorhynchus mykiss*

EC50 - for Crustacea

1550 mg/l/48h *Daphnia magna*



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EC50 - for Algae / Aquatic Plants

1840 mg/l/72h *Pseudokirchneriella subcapitata*

Chronic NOEC for Fish

> 100 mg/l *Brachydanio rerio* - 21d

Chronic NOEC for Crustacea

100 mg/l *Daphnia Magna* - 21 d

### 12.2. Persistence and degradability

POTASSIUM HYDROXIDE

NOT rapidly degradable

2-BUTOXYETHANOL

Rapidly degradable

90% - 28 d (OECD 301B)

### 12.3. Bioaccumulative potential

POTASSIUM HYDROXIDE

- Bioaccumulation potential not expected.

2-BUTOXYETHANOL

Not bioaccumulative.

2-BUTOXYETHANOL

Partition coefficient: n-octanol/water

0,8

BCF

3,16

### 12.4. Mobility in soil

2-BUTOXYETHANOL

Transport evaluation between environmental departments - The substance does not evaporate into the atmosphere from the water surface. Absorption to the solid phase of the soil is not predictable.

### 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. Neat product residues should be considered special non-hazardous waste.

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

CONTAMINATED PACKAGING

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

The valid EEC waste code are largely source-related; the manufacturer is, therefore, unable to specify waste codes for products used in various sectors. Small quantities of hardened product can be treated come Urban Solid Waste or industrial waste similar to USW.

CER-code (suggested) : 08 04 10



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**SECTION 14. Transport information**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number or ID number**

not applicable

**14.2. UN proper shipping name**

not applicable

**14.3. Transport hazard class(es)**

not applicable

**14.4. Packing group**

not applicable

**14.5. Environmental hazards**

not applicable

**14.6. Special precautions for user**

not applicable

**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**



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Seveso Category - Directive 2012/18/EU: None

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

Contained substance

Point 75

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

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Information not available

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

**15.2. Chemical safety assessment**

A chemical safety assessment has not been carried out.

**SECTION 16. Other information**

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

**Met. Corr. 1** Substance or mixture corrosive to metals, category 1



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|                          |                                                                    |
|--------------------------|--------------------------------------------------------------------|
| <b>Acute Tox. 2</b>      | Acute toxicity, category 2                                         |
| <b>Acute Tox. 3</b>      | Acute toxicity, category 3                                         |
| <b>Acute Tox. 4</b>      | Acute toxicity, category 4                                         |
| <b>Skin Corr. 1A</b>     | Skin corrosion, category 1A                                        |
| <b>Skin Corr. 1B</b>     | Skin corrosion, category 1B                                        |
| <b>Skin Corr. 1C</b>     | Skin corrosion, category 1C                                        |
| <b>Skin Corr. 1</b>      | Skin corrosion, category 1                                         |
| <b>Eye Dam. 1</b>        | Serious eye damage, category 1                                     |
| <b>Eye Irrit. 2</b>      | Eye irritation, category 2                                         |
| <b>Skin Irrit. 2</b>     | Skin irritation, category 2                                        |
| <b>Skin Sens. 1</b>      | Skin sensitization, category 1                                     |
| <b>Aquatic Acute 1</b>   | Hazardous to the aquatic environment, acute toxicity, category 1   |
| <b>Aquatic Chronic 1</b> | Hazardous to the aquatic environment, chronic toxicity, category 1 |
| <b>H290</b>              | May be corrosive to metals.                                        |
| <b>H310</b>              | Fatal in contact with skin.                                        |
| <b>H330</b>              | Fatal if inhaled.                                                  |
| <b>H301</b>              | Toxic if swallowed.                                                |
| <b>H331</b>              | Toxic if inhaled.                                                  |
| <b>H302</b>              | Harmful if swallowed.                                              |
| <b>H314</b>              | Causes severe skin burns and eye damage.                           |
| <b>H318</b>              | Causes serious eye damage.                                         |
| <b>H319</b>              | Causes serious eye irritation.                                     |
| <b>H315</b>              | Causes skin irritation.                                            |
| <b>H317</b>              | May cause an allergic skin reaction.                               |
| <b>H400</b>              | Very toxic to aquatic life.                                        |
| <b>H410</b>              | Very toxic to aquatic life with long lasting effects.              |
| <b>EUH210</b>            | Safety data sheet available on request.                            |

**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



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- 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**

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
  2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
  3. Regulation (EU) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
  5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
  6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
  7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
  8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
  9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
  10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
  11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
  12. Regulation (EU) 2016/1179 (IX Atp. CLP)
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  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
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  - N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
  - IFA GESTIS website
  - ECHA website
  - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

**Note for users:**

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

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

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

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

**CALCULATION METHODS FOR CLASSIFICATION**

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

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

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

**Changes to previous review:**

The following sections were modified:

03 / 04 / 07 / 08 / 11 / 12 / 15 / 16.