

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 12.04.2023

Version number 3 (replaces version 2)

Revision: 12.04.2023

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

#### - 1.1 Product identifier

- Trade name: 4212

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

No further relevant information available.

- Application of the substance / the mixture Adhesives

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

##### - Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

##### - Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH

Salzstraße 15

D-74676 Niedernhall

Tel +49 7940 50961 61

- Further information obtainable from: Product safety department

- Department issuing MSDS: info@kisling.com

#### - 1.4 Emergency telephone number:

+49-700-24 112 112 (KAR)

+1 872 5888271

### SECTION 2: Hazards identification

#### - 2.1 Classification of the substance or mixture

- Classification according to Regulation (EC) No 1272/2008

The product is not classified, according to the CLP regulation.

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#### - 2.2 Label elements

- Labelling according to Regulation (EC) No 1272/2008 Void

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

- Additional information:

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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- Labelling of packages where the contents do not exceed 125 ml

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

#### - 2.3 Other hazards

- Results of PBT and vPvB assessment

- PBT: Not applicable.

- vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

#### - 3.2 Mixtures

- Description: Adhesive

(Contd. on page 2)

EU-EN

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Version number 3 (replaces version 2)

Revision: 12.04.2023

**Trade name: 4212**

(Contd. of page 1)

**- Dangerous components:**

|  |                  |                       |            |
|--|------------------|-----------------------|------------|
| CAS: 13463-67-7<br>EINECS: 236-675-5<br>Index number: 022-006-00-2<br>Reg.nr.: 01-2119489379-17-xxxx | titanium dioxide | Carc. 2, H351, EUH212 | > 1 - ≤ 5% |
|--|------------------|-----------------------|------------|

**SECTION 4: First aid measures**

- **4.1 Description of first aid measures**
- **General information:** Remove any clothing soiled by the product.
- **After inhalation:**  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** After contact with skin, wash with plenty of soap and water.
- **After eye contact:**  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If swallowed, do not induce vomiting; seek medical advice and show this container or label.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**SECTION 5: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide and carbon dioxide  
Danger of forming toxic pyrolysis products.  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Avoid contact with the eyes and skin.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.

(Contd. on page 3)

EU-EN

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Version number 3 (replaces version 2)

Revision: 12.04.2023

**Trade name: 4212**

(Contd. of page 2)

**- 6.4 Reference to other sections**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 10 for information on "stability and reactivity".
- See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:**  
No special precautions are necessary if used and stored according to specifications.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Store in cool, dry conditions in well sealed receptacles.  
Protect from heat and direct sunlight.  
Store receptacle in a well ventilated area.
- **Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers):** 10-13
- **7.3 Specific end use(s)** No further relevant information available.

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

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Hand protection**  
Protective gloves on prolonged contact with skin.  
Check protective gloves prior to each use for their proper condition.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves**  
Find below a list of appropriate protective gloves for chemical surrounding:
  - .  
Permeation time / penetration time: = 480 minutes (DIN EN 374):  
Naturlatex I , Nr. 0395 oder 0403  
Chloropren Nitril I, Nr. 0727  
Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836  
Viton, Nr. 0890  
Butyl II, Nr. 0897  
Butyl, Nr. 0898
  - .  
Permeation time / penetration time: = 240 minutes (DIN EN 374):  
Chloropren Nitril II, Nr. 0717  
Nitril VI, Nr. 0754  
Nitril V, Nr. 0764
  - .

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.04.2023

Version number 3 (replaces version 2)

Revision: 12.04.2023

**Trade name: 4212**

(Contd. of page 3)

of KCL company (e-mail: [vertrieb@kcl.de](mailto:vertrieb@kcl.de)).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

**- Eye/face protection** Avoid contact with the eyes.

### SECTION 9: Physical and chemical properties

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

**- General Information**

|   |  |
|---|--|
| <b>- Colour:</b>  | White                                      |
| <b>- Odour:</b>   | Mild                                       |
| <b>- Odour threshold:</b>   | Not determined.                            |
| <b>- Melting point/freezing point:</b>                            | Undetermined.                              |
| <b>- Boiling point or initial boiling point and boiling range</b> | Undetermined.                              |
| <b>- Flammability</b>   | Not applicable.                            |
| <b>- Lower and upper explosion limit</b>                          |  |
| <b>- Lower:</b>   | Not determined.                            |
| <b>- Upper:</b>   | Not determined.                            |
| <b>- Flash point:</b>   | > 100 °C                                   |
| <b>- Decomposition temperature:</b>                               | Not determined.                            |
| <b>- pH</b>   | Not determined.                            |
| <b>- Viscosity:</b>   |  |
| <b>- Kinematic viscosity</b>                                      | Not determined.                            |
| <b>- Dynamic at 20 °C:</b>  | 180,000 - 300,00 mPas (Brookfield (7/2,5)) |
| <b>- Solubility</b>   |  |
| <b>- water:</b>   | Not miscible or difficult to mix.          |
| <b>- Partition coefficient n-octanol/water (log value)</b>        | Not determined.                            |
| <b>- Vapour pressure:</b>   | Not determined.                            |
| <b>- Density and/or relative density</b>                          |  |
| <b>- Density at 20 °C:</b>  | 1.1 g/cm <sup>3</sup>                      |
| <b>- Relative density</b>   | Not determined.                            |
| <b>- Vapour density</b>   | Not determined.                            |

**- 9.2 Other information**

|  |   |
|--|---|
| <b>- Appearance:</b>   |   |
| <b>- Form:</b>   | Fluid   |
| <b>- Important information on protection of health and environment, and on safety.</b> |   |
| <b>- Ignition temperature:</b>   | Product is not self-igniting.                 |
| <b>- Explosive properties:</b>   | Product does not present an explosion hazard. |
| <b>- Change in condition</b>   |   |
| <b>- Softening point/range</b>   |   |
| <b>- Oxidising properties</b>  | Not determined.                               |
| <b>- Evaporation rate</b>  | Not determined.                               |

(Contd. on page 5)

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 12.04.2023

Version number 3 (replaces version 2)

Revision: 12.04.2023

Trade name: 4212

(Contd. of page 4)

| - Information with regard to physical hazard classes                        |      |
|---|------|
| - Explosives  | Void |
| - Flammable gases   | Void |
| - Aerosols  | Void |
| - Oxidising gases   | Void |
| - Gases under pressure  | Void |
| - Flammable liquids   | Void |
| - Flammable solids  | Void |
| - Self-reactive substances and mixtures                                     | Void |
| - Pyrophoric liquids  | Void |
| - Pyrophoric solids   | Void |
| - Self-heating substances and mixtures                                      | Void |
| - Substances and mixtures, which emit flammable gases in contact with water | Void |
| - Oxidising liquids   | Void |
| - Oxidising solids  | Void |
| - Organic peroxides   | Void |
| - Corrosive to metals   | Void |
| - Desensitised explosives   | Void |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions** Reacts with metal-salts.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous products of decomposition if used and stored according to specifications.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

#### - LD/LC50 values relevant for classification:

##### 13463-67-7 titanium dioxide

|            |          |                                   |
|------------|----------|-----------------------------------|
| Oral       | LD50     | > 20,000 mg/kg (Rat, male/female) |
| Inhalative | LC50/4 h | > 6.82 mg/l (Rat, male/female)    |

- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation** Slight irritant effect possible.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
No experimentally found toxicological data are available for this preparation.

(Contd. on page 6)

EU-EN

## Safety data sheet

### according to 1907/2006/EC, Article 31

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Version number 3 (replaces version 2)

Revision: 12.04.2023

Trade name: 4212

(Contd. of page 5)

**- 11.2 Information on other hazards****- Endocrine disrupting properties**

None of the ingredients is listed.

**SECTION 12: Ecological information****- 12.1 Toxicity****- Aquatic toxicity:** No further relevant information available.**- 12.2 Persistence and degradability** No further relevant information available.**- 12.3 Bioaccumulative potential** No further relevant information available.**- 12.4 Mobility in soil** No further relevant information available.**- 12.5 Results of PBT and vPvB assessment****- PBT:** Not applicable.**- vPvB:** Not applicable.**- 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

**- 12.7 Other adverse effects** No further relevant information available.**- Additional ecological information:****- General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Danger to drinking water if even small quantities leak into the ground.

Do not allow product to reach ground water, water course or undiluted sewage system.

**SECTION 13: Disposal considerations****- 13.1 Waste treatment methods****- Recommendation** Disposal must be made according to official regulations.**- European waste catalogue**

|          |   |
|----------|---|
| 08 00 00 | WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS |
| 08 04 00 | wastes from MFSU of adhesives and sealants (including waterproofing products)   |
| 08 04 10 | waste adhesives and sealants other than those mentioned in 08 04 09   |

**- Uncleaned packaging:****- Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information**

|  |                 |
|--|-----------------|
| <b>- 14.1 UN number or ID number</b>     |                 |
| <b>- ADR, IMDG, IATA</b>                 | Void            |
| <b>- 14.2 UN proper shipping name</b>    |                 |
| <b>- ADR, IMDG, IATA</b>                 | Void            |
| <b>- 14.3 Transport hazard class(es)</b> |                 |
| <b>- ADR, ADN, IMDG, IATA</b>            |                 |
| <b>- Class</b>                           | Void            |
| <b>- 14.4 Packing group</b>              |                 |
| <b>- ADR, IMDG, IATA</b>                 | Void            |
| <b>- 14.5 Environmental hazards:</b>     | Not applicable. |

(Contd. on page 7)

# Safety data sheet

## according to 1907/2006/EC, Article 31

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Trade name: 4212

(Contd. of page 6)

|  |                 |
|--|-----------------|
| <b>- 14.6 Special precautions for user</b> | Not applicable. |
|--|-----------------|

|   |                 |
|---|-----------------|
| <b>- 14.7 Maritime transport in bulk according to IMO instruments</b> | Not applicable. |
|---|-----------------|

|                                 |      |
|---------------------------------|------|
| <b>- UN "Model Regulation":</b> | Void |
|---------------------------------|------|

### SECTION 15: Regulatory information

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

**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**- REGULATION (EU) 2019/1148**

**- Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

**- Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

None of the ingredients is listed.

**- Regulation (EC) No 273/2004 on drug precursors**

None of the ingredients is listed.

**- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

None of the ingredients is listed.

**- National regulations:**

**- Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**- Relevant phrases**

H351 Suspected of causing cancer.

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

**- Version number of previous version: 2**

**- Abbreviations and acronyms:**

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Carc. 2: Carcinogenicity – Category 2

**- \* Data compared to the previous version altered.**