

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Rakollit™ 280**

|         |                |              |                                 |
|---------|----------------|--------------|---------------------------------|
| Version | Revision Date: | SDS Number:  | Date of last issue: 25.05.2023  |
| 3.0     | 01.07.2024     | 100000016949 | Date of first issue: 18.03.2022 |
|         | Print Date:    |              |                                 |
|         | 17.07.2025     |              |                                 |

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Product name** : Rakollit™ 280**1.2 Relevant identified uses of the substance or mixture and uses advised against**Use of the Sub-  
stance/Mixture : Water based adhesiveRecommended restrictions  
on use : For industrial use only.**1.3 Details of the supplier of the safety data sheet**

Company : H.B. Fuller, Isar-Rakoll, S.A.

Address : Estrada Nacional 13  
PT-4486-851 Mindelo - Vila do Conde  
+351 229 288 200E-mail address of person  
responsible for the SDS : EU-MSDS@hbfuller.com**1.4 Emergency telephone number**Emergency telephone number : In case of poisoning:  
GBK-EMTEL International  
Tel.(24h):+49(0)6132/84463 (all languages)In case of transport accidents:  
Tel.(24h): (001) 352 323 3500 (Infotrac - Contract ID: 90373 /  
GBK)

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**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

**2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

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**Additional Labelling**

EUH210 Safety data sheet available on request.

EUH208 Contains 1,2-benzisothiazol-3(2H)-one, 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone. May produce an allergic reaction.

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: Composition/information on ingredients**
**3.2 Mixtures**
**Components**

| Chemical name                | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number           | Classification   | Concentration<br>(% w/w) |
|------------------------------|---|--|--------------------------|
| 1,2-benzisothiazol-3(2H)-one | 2634-33-5<br>220-120-9<br>613-088-00-6<br>01-2120761540-60-0000 | Acute Tox. 4; H302<br>Skin Irrit. 2; H315<br>Eye Dam. 1; H318<br>Skin Sens. 1; H317<br>Aquatic Acute 1;<br>H400<br><br>M-Factor (Acute aquatic toxicity): 1<br>M-Factor (Chronic aquatic toxicity): 1<br><br>specific concentration limit<br>Skin Sens. 1; H317<br>>= 0,05 % | >= 0,0025 - < 0,025      |

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|   |   |  |                      |
|---|---|--|----------------------|
|   |   | Acute toxicity estimate<br><br>Acute oral toxicity:<br>450 mg/kg<br>Acute inhalation toxicity (dust/mist): 0,21 mg/l   |                      |
| 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone | 55965-84-9<br><br>613-167-00-5<br>01-2120764691-48-0000 | Acute Tox. 3; H301<br>Acute Tox. 2; H330<br>Acute Tox. 2; H310<br>Skin Corr. 1C; H314<br>Eye Dam. 1; H318<br>Skin Sens. 1A; H317<br>Aquatic Acute 1; H400<br>Aquatic Chronic 1; H410<br>EUH071<br><br>M-Factor (Acute aquatic toxicity): 100<br>M-Factor (Chronic aquatic toxicity): 100<br><br>specific concentration limit<br>Skin Corr. 1C; H314<br>>= 0,6 %<br>Skin Irrit. 2; H315<br>0,06 - < 0,6 %<br>Eye Irrit. 2; H319<br>0,06 - < 0,6 %<br>Skin Sens. 1A; H317<br>>= 0,0015 %<br>Eye Dam. 1; H318<br>>= 0,6 % | >= 0,0002 - < 0,0015 |

For explanation of abbreviations see section 16.

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

- General advice : If on clothes, remove clothes.  
Show this safety data sheet to the doctor in attendance.
- If inhaled : Remove person to fresh air. If signs/symptoms continue, get medical attention.  
In case of unconsciousness bring patient into stable side position for transport.
- In case of skin contact : Wash off immediately with plenty of water.  
Call a physician if irritation develops or persists.
- In case of eye contact : Flush eyes with water at least 15 minutes. Get medical attention if eye irritation develops or persists.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
If conscious, drink fresh water.

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

None known.

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

Treatment : No further relevant information available.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Water mist  
Foam  
Dry powder  
Carbon dioxide (CO<sub>2</sub>)

**5.2 Special hazards arising from the substance or mixture**

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.

**5.3 Advice for firefighters**

- Special protective equipment for firefighters : No special protective measures against fire required.

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Further information : This product is an aqueous mixture that will not burn. Dried product film will burn in a fire.  
In the event of fire, wear self-contained breathing apparatus.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Personal precautions : Use personal protective equipment.  
Ensure adequate ventilation.

**6.2 Environmental precautions**

Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.  
Dilute with much water.

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

Methods for cleaning up : Ensure adequate ventilation.  
Send for recovery or disposal in suitable containers.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

**6.4 Reference to other sections**

Refer to protective measures listed in sections 7 and 8., For disposal considerations see section 13.

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

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Avoid formation of aerosol.  
Handle with care.  
Keep eye wash bottle available on working place.  
Keep out of reach of children.  
Avoid release to the environment.

Use only with adequate ventilation.

Advice on protection against fire and explosion : In the event of fire and/or explosion do not breathe fumes.  
Wear self-contained breathing apparatus and protective suit.  
Have fire extinguishing equipment ready in case of nearby fire.

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

Requirements for storage areas and containers : Do not freeze. Keep container closed when not in use. Keep tightly closed in a dry and cool place. Protect against light.

Advice on common storage : No special restrictions on storage with other products.

Recommended storage temperature : > 5 °C

**7.3 Specific end use(s)**

Specific use(s) : No further relevant information available.

**SECTION 8: Exposure controls/personal protection**
**8.1 Control parameters**
**Occupational Exposure Limits**

| Components | CAS-No.   | Value type (Form of exposure)        | Control parameters   | Basis  |
|------------|-----------|--------------------------------------|----------------------|--------|
| limestone  | 1317-65-3 | OELV - 8 hrs (TWA) (Respirable dust) | 4 mg/m <sup>3</sup>  | IE OEL |
|            |           | OELV - 8 hrs (TWA) (inhalable dust)  | 10 mg/m <sup>3</sup> | IE OEL |

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

| Substance name  | End Use | Exposure routes | Potential health effects | Value                  |
|---|---------|-----------------|--------------------------|------------------------|
| 1,2-benzisothiazol-3(2H)-one  | Workers | Eye contact     | Local effects            |                        |
|   | Workers | Inhalation      | Systemic, long-term      | 6,81 mg/m <sup>3</sup> |
|   | Workers | Dermal          | Systemic, long-term      | 0,966 mg/kg            |
| 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone | Workers | Eye contact     | Local effects            |                        |
|   | Workers | Inhalation      | Local, long-term         | 0,02 mg/m <sup>3</sup> |
|   | Workers | Inhalation      | Local, short-term        | 0,04 mg/m <sup>3</sup> |

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

| Substance name               | Environmental Compartment | Value     |
|------------------------------|---------------------------|-----------|
| 1,2-benzisothiazol-3(2H)-one | Soil                      | 3 mg/kg   |
|                              | Fresh water               | 4,03 µg/l |
|                              | Sewage treatment plant    | 1,03 mg/l |

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|   |                        |               |
|---|------------------------|---------------|
|   | Fresh water sediment   | 0,0499 mg/kg  |
|   | Marine water           | 0,403 µg/l    |
|   | Marine sediment        | 0,00499 mg/kg |
| 5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone | Sewage treatment plant | 0,23 mg/l     |
|   | Fresh water sediment   | 0,027 mg/kg   |
|   | Soil                   | 0,01 mg/kg    |
|   | Marine sediment        | 0,027 mg/kg   |
|   | Fresh water            | 3,39 µg/l     |
|   | Marine water           | 3,39 µg/l     |

**8.2 Exposure controls**
**Engineering measures**

Please take care on national and local requirements.

**Personal protective equipment**

Eye protection : Tightly fitting safety goggles or equipment with better protection

Hand protection  
Material : Protective gloves

Remarks : Direct contact with the product must be avoided by organizational measures.  
The glove material has to be impermeable and resistant to the product/the substance/the preparation.  
The exact break through time can be obtained from the protective glove producer and this has to be observed.  
The gloves need to be disposed after the penetration time and replaced by new ones.  
Apply skin protectant before working with gloves to avoid skin swellings and use a skin cleansing and skincare product after the work.

**For the permanent contact gloves made of the following materials are suitable:**

If longer exposure to the chemical preparation is necessary, a sturdy overglove against mechanical strain is recommended in combination with the Barrier 02-100 underglove from Ansell or other suppliers (penetration time: 480 min).

**For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Butyl rubber (minimum thickness: 0.7 mm; penetration time: 15 min)

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**As protection from splashes gloves made of the following materials are suitable:**

Nitril (minimum thickness 0.12 mm), Disposable gloves with long cuffs

After contact with the chemical preparation, take the disposable nitrile glove off immediately and put on a new disposable nitrile glove.

|                          |   |  |
|--------------------------|---|--|
| Skin and body protection | : | Protective clothing  |
| Respiratory protection   | : | Use respiratory protection unless adequate risk management measures (exhaust/ ventilation) are provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.<br>In case of brief exposure or low pollution (exceeding of TLV) use breathing filter apparatus.<br>In case of intensive or longer exposure use breathing apparatus that is independent of circulating air. |
| Filter type              | : | Organic vapour type or equipment with better protection (A)  |
| Protective measures      | : | Keep away from food, drink and animal feedingstuffs.<br>Instantly remove any soiled and impregnated garments.<br>Wash hands before breaks and immediately after handling the product.<br>Avoid contact with the eyes and skin.<br>Store protective clothing separately.  |

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

|                              |   |   |
|------------------------------|---|---|
| Physical state               | : | liquid                                  |
| Colour                       | : | white                                   |
| Odour                        | : | characteristic                          |
| Odour Threshold              | : | is not determined                       |
| Melting point/freezing point | : | 0 °C                                    |
| Boiling point/boiling range  | : | 100 °C                                  |
| Flammability                 | : | Not classified as a flammability hazard |

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Upper explosion limit / Upper flammability limit : Upper flammability limit is not determined

Lower explosion limit / Lower flammability limit : Lower flammability limit is not determined

Flash point : Not applicable

Auto-ignition temperature : not self-igniting

Decomposition temperature : Not applicable

pH : 6,5 - 8,5

Viscosity  
Viscosity, dynamic : 10.000 mPa.s (20 °C)

Solubility(ies)  
Water solubility : completely miscible

Partition coefficient: n-octanol/water : no data available

Vapour pressure : 23 hPa (20 °C)

Density : 1,22 g/cm<sup>3</sup>

Relative vapour density : is not determined

**9.2 Other information**

Explosives : Not explosive

Evaporation rate : is not determined

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

No further relevant information available.

**10.2 Chemical stability**

No decomposition if used according to the specifications.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.

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**10.4 Conditions to avoid**

Conditions to avoid : Heat may lead to dangerous pressure build-up in sealed container.  
Protect from frost.

**10.5 Incompatible materials**

Materials to avoid : No further relevant information available.

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

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**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.

**Product:**

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 Hours  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

**Components:****1,2-benzisothiazol-3(2H)-one:**

Acute oral toxicity : Acute toxicity estimate: 450 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

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**Serious eye damage/eye irritation**

Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation****Skin sensitisation**

Based on available data, the classification criteria are not met.

**Respiratory 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 toxicity**

Based on available data, the classification criteria are not met.

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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**SECTION 12: Ecological information****12.1 Toxicity****Components:****1,2-benzisothiazol-3(2H)-one:**

M-Factor (Acute aquatic toxicity) : 1

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M-Factor (Chronic aquatic toxicity) : 1

**5-Chloro-2-methyl-3(2H)isothiazolone mixt. with 2-Methyl-3(2H)isothiazolone:**

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

**12.4 Mobility in soil****Product:**

Mobility : Medium: Soil  
Remarks: Do not allow product to reach ground water, water bodies or sewage system.

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects**

No data available

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

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|                        |   |  |
|------------------------|---|--|
| Product                | : | Do not dispose of with domestic refuse.<br>Do not dispose of waste into sewer.<br>The generation of waste should be avoided or minimized wherever possible.<br>Disposal must be made according to official regulations.<br>Hand over to disposers of hazardous waste.<br>Incineration under approved, controlled conditions using incinerators suitable or designed for the disposal of hazardous chemical wastes, is the preferred method for disposal. |
| Contaminated packaging | : | Recommended cleaning agent: Water, if necessary with cleaning agent.<br>Disposal must be made according to official regulations.   |

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**SECTION 14: Transport information****14.1 UN number or ID number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

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

Not applicable for product as supplied.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

|  |   |   |
|--|---|---|
| REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) | : | Conditions of restriction for the following entries should be considered:<br>Distillates (petroleum), hydrotreated lightmethyl acetatebronopolvinyl acetate 1,2-benzisothiazol-3(2H)-one formaldehyde (Number on list 28) |
|--|---|---|

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acetaldehyde (Number on list 28)

- REACH - Candidate List of Substances of Very High Concern for Authorisation (SVHC, Article 59) : Compliant
- Regulation (EC) 2024/590 on substances that deplete the ozone layer : Compliant
- Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Compliant
- RoHS: 2011/65/EU, Restriction of Hazardous Substances : Compliant
- Council Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors : Neither banned nor restricted
- Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable
- REACH - List of substances subject to authorisation (Annex XIV) : Compliant
- Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0,27 %

**The components of this product are reported in the following inventories:**

- TSCA : All substances listed as active on the TSCA inventory
- REACH : On the inventory, or in compliance with the inventory

**15.2 Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this mixture.

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**SECTION 16: Other information****Full text of H-Statements**

|        |   |
|--------|---|
| H301   | : Toxic if swallowed.                                   |
| H302   | : Harmful if swallowed.                                 |
| H310   | : Fatal in contact with skin.                           |
| H314   | : Causes severe skin burns and eye damage.              |
| H315   | : Causes skin irritation.                               |
| H317   | : May cause an allergic skin reaction.                  |
| H318   | : Causes serious eye damage.                            |
| H330   | : Fatal if inhaled.                                     |
| H400   | : Very toxic to aquatic life.                           |
| H410   | : Very toxic to aquatic life with long lasting effects. |
| EUH071 | : Corrosive to the respiratory tract.                   |

**Full text of other abbreviations**

|                             |   |
|-----------------------------|---|
| Acute Tox.                  | : Acute toxicity  |
| Aquatic Acute               | : Short-term (acute) aquatic hazard   |
| Aquatic Chronic             | : Long-term (chronic) aquatic hazard  |
| Eye Dam.                    | : Serious eye damage  |
| Skin Corr.                  | : Skin corrosion  |
| Skin Irrit.                 | : Skin irritation   |
| Skin Sens.                  | : Skin sensitisation  |
| IE OEL                      | : Ireland. List of Chemical Agents and Carcinogens with Occupational Exposure Limit Values - Code of Practice, Schedule 1 and 2 |
| IE OEL / OELV - 8 hrs (TWA) | : Occupational exposure limit value (8-hour reference period)   |

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Ef-

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended

**Rakollit™ 280**

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| Version | Revision Date: | SDS Number:  | Date of last issue: 25.05.2023  |
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fect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

**Modified data compared to the previous version**

The following sections have been updated:

- Section 1
- Section 2
- Section 3
- Section 4
- Section 5
- Section 6
- Section 7
- Section 8
- Section 10
- Section 11
- Section 12
- Section 13
- Section 15
- Section 16

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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

IE / EN



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