

# Safety data sheet

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

Printing date 26.04.2021

Version number 1

Revision: 26.04.2021

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

- **1.1 Product identifier**
- **Trade name: Minel Multi 5 Geschirr Reiniger (Dishwasher Tabs)**
- **Product Code:** UFI: TPUS-AT5C-VR3J-GS8T
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Life cycle stages** C Consumer use
- **Product category** PC35 Washing and cleaning products (including solvent based products)
- **Application of the substance / the mixture** Dishwasher formulation
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Thurn Germany GmbH  
Henneferstraße 2  
D-53819 Neunkirchen-Seelscheid GERMANY  
Tel.: +49 2247-9039-0 Fax.: +49 2247-9039-11
- **Further information obtainable from:**  
Product safety department, tel.: +49(0)2247/9039-233, email: produktsicherheit@thurn-produkte.com
- **1.4 Emergency telephone number:** Mo-Fr, 8.00-17.00: +49 (0) 2247 9039-255

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008**  
The product is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard statements**  
H319 Causes serious eye irritation.
- **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P264	Wash hands thoroughly after handling.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.
- **Additional information:**  
Contains Subtilisin. May produce an allergic reaction.
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**  
Based on the composition and ingredient data the formulation contains neither PBT- nor vPvB-ingredients.
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

· **Description:** Cleansing agent

#### · **Dangerous components:**

CAS: 497-19-8 EINECS: 207-838-8 Reg.nr.: 01-2119485498-19-XXXX	sodium carbonate ⚠ Eye Irrit. 2, H319	35-45%
CAS: 15630-89-4 EINECS: 239-707-6 Reg.nr.: 01-2119457268-30-XXXX	disodium carbonate, compound with hydrogenperoxide (2:3) ⚠ Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302	10-15%
CAS: 9014-01-1 EINECS: 232-752-2 Reg.nr.: 01-2119480434-38-XXXX	Protease ⚠ Resp. Sens. 1, H334; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	0.5-1.0%

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

· **After inhalation:** Seek medical treatment in case of complaints.

· **After skin contact:**

Rinse with warm water.

If skin irritation continues, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Protect unharmed eye.

· **After swallowing:** Do not induce vomiting; call for medical help immediately.

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

After inhalation: irritation of respiratory tract, coughing, possibly breathing difficulty

After swallowing: irritation of mucous membranes, vomiting, diarrhea, Risk of aspiration

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

If swallowed or in case of vomiting, danger of entering the lungs.

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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

Under certain fire conditions, traces of other toxic gases cannot be excluded.

#### 5.3 Advice for firefighters

##### · **Protective equipment:**

Do not inhale explosion gases or combustion gases.

Wear self-contained respiratory protective device.

##### · **Additional information**

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

Product forms slippery surface when combined with water.

Wear protective clothing.

Avoid formation of dust.

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- **6.2 Environmental precautions:** Do not allow to penetrate the ground/soil.
- **6.3 Methods and material for containment and cleaning up:**
  - Pick up mechanically.
  - Dispose of the material collected according to regulations.
  - Clean the affected area carefully; suitable cleaners are:
    - Warm water
    - Weak acid solution
  - Send for recovery or disposal in suitable receptacles.
- **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 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  - No special precautions are necessary if used correctly.
  - Prevent formation of dust.
  - Provide suction extractors if dust is formed.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
  - **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:**
    - Protect from heat and direct sunlight.
    - Store in dry conditions.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Additional information about design of technical facilities:** No further data; see item 7.
- **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**
  - **Personal protective equipment:**
  - **General protective and hygienic measures:**
    - The usual precautionary measures are to be adhered to when handling chemicals.
    - Do not eat, drink, smoke or sniff while working.
    - Wash hands before breaks and at the end of work.
    - Avoid contact with the eyes.
    - Avoid close or long term contact with the skin.
    - Use skin protection cream for skin protection.
  - **Respiratory protection:**
    - Not necessary if room is well-ventilated.
    - Short term filter device:
      - Filter P2
  - **Protection of hands:**
    - Rubber gloves
    - Synthetic rubber gloves
    - PVC or PE gloves
    - PVA gloves
    - Plastic gloves
    - Alkaline resistant gloves
    - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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- **Material of gloves** Recommended thickness of the material:  $\geq 0.3$  mm
- **Penetration time of glove material**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Goggles recommended during refilling

### SECTION 9: Physical and chemical properties

#### · 9.1 Information on basic physical and chemical properties

##### · General Information

##### · Appearance:

- |                  |                    |
|------------------|--------------------|
| Form:            | Tablets            |
| Colour:          | Various colours    |
| Odour:           | Undistinguishable. |
| Odour threshold: | Not determined.    |

- |                             |          |
|-----------------------------|----------|
| pH-value (10 g/l) at 20 °C: | ca. 10.5 |
|-----------------------------|----------|

##### · Change in condition

- |  |               |
|--|---------------|
| Melting point/freezing point:            | Undetermined. |
| Initial boiling point and boiling range: | Undetermined. |

- |              |                 |
|--------------|-----------------|
| Flash point: | Not applicable. |
|--------------|-----------------|

- |                            |                 |
|----------------------------|-----------------|
| Flammability (solid, gas): | Not determined. |
|----------------------------|-----------------|

- |                            |                 |
|----------------------------|-----------------|
| Decomposition temperature: | Not determined. |
|----------------------------|-----------------|

- |                            |                              |
|----------------------------|------------------------------|
| Auto-ignition temperature: | Product is not selfigniting. |
|----------------------------|------------------------------|

- |                       |   |
|-----------------------|---|
| Explosive properties: | Product does not present an explosion hazard. |
|-----------------------|---|

##### · Explosion limits:

- |        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

- |                  |                 |
|------------------|-----------------|
| Vapour pressure: | Not applicable. |
|------------------|-----------------|

- |          |                 |
|----------|-----------------|
| Density: | Not determined. |
|----------|-----------------|

- |                  |                 |
|------------------|-----------------|
| Relative density | Not determined. |
|------------------|-----------------|

- |                |                 |
|----------------|-----------------|
| Vapour density | Not applicable. |
|----------------|-----------------|

- |                  |                 |
|------------------|-----------------|
| Evaporation rate | Not applicable. |
|------------------|-----------------|

##### · Solubility in / Miscibility with water:

Soluble.

- |   |                 |
|---|-----------------|
| Partition coefficient: n-octanol/water: | Not determined. |
|---|-----------------|

##### · Viscosity:

- |            |                 |
|------------|-----------------|
| Dynamic:   | Not applicable. |
| Kinematic: | Not applicable. |

##### · Solvent content:

- |                 |       |
|-----------------|-------|
| Solids content: | >95 % |
|-----------------|-------|

- |                       |  |
|-----------------------|--|
| 9.2 Other information | No further relevant information available. |
|-----------------------|--|

### 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 according to specifications.

- **10.3 Possibility of hazardous reactions** Reacts with strong acids.

- **10.4 Conditions to avoid** No further relevant information available.

- **10.5 Incompatible materials:** No further relevant information available.

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- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

Components	Type	Value	Species
<b>497-19-8 sodium carbonate</b>			
Oral	LD50	4090 mg/kg (rat)	
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)	
<b>15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)</b>			
Oral	LD50	1034 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)	
<b>9014-01-1 Protease</b>			
Oral	LD50	3700 mg/kg (rat)	
<b>1314-13-2 zinc oxide</b>			
Oral	LD50	> 5000 mg/kg (rat)	

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

- **Other information (about experimental toxicology):**

<b>15630-89-4 disodium carbonate, compound with hydrogenperoxide (2:3)</b>		
Irritation of eyes	Reizwirkung	corrosive (rabbit) (OECD 405)

- **Additional toxicological information:**
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **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.

### SECTION 12: Ecological information

- **12.2 Persistence and degradability**  
The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.
- **Behaviour in environmental systems:**

Components:		
<b>497-19-8 sodium carbonate</b>		
LC50	300 mg/l (fish)	(OECD 203 (Lepomis macrochirus, 96h))
<b>9014-01-1 Protease</b>		
EC50	0.586 mg/l (daphnia)	(OECD 202)
LC50	8.2 mg/l (fish)	(OECD 203)

- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**

- **General notes:**  
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct

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request or at the request of a detergent manufacturer.

The product may not be released into the environment without control.

The evaluation was performed in accordance with the calculation procedure of the preparation guideline.

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

The product should not be released into the aquatic environment without preliminary treatments (purification plant).

#### · 12.5 Results of PBT and vPvB assessment

Based on the composition and ingredient data the formulation contains neither PBT- nor vPvB-ingredients.

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **12.6 Other adverse effects** No further relevant information available.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

##### · Recommendation

Larger amounts of product residues have to be taken to hazardous waste collection points.

##### · Uncleaned packaging:

· **Recommendation:** Non contaminated packagings may be recycled.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

#### · 14.1 UN-Number

· **ADR, ADN, IMDG, IATA** Void

#### · 14.2 UN proper shipping name

· **ADR, ADN, IMDG, IATA** Void

#### · 14.3 Transport hazard class(es)

· **ADR, ADN, IMDG, IATA**

· **Class** Void

#### · 14.4 Packing group

· **ADR, IMDG, IATA** Void

#### · 14.5 Environmental hazards:

· **Marine pollutant:** No

· **14.6 Special precautions for user** Not applicable.

· **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **UN "Model Regulation":** Void

### SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture** Regulation (EU) No 648/2004 (Detergent Regulation)

· **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

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.

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- **Department issuing SDS:** Product safety department
- **Contact:** Dep. Product Safety, Tel. +49(0)2247/9039-233
- **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
  - Acute Tox. 4: Acute toxicity – Category 4
  - Skin Irrit. 2: Skin corrosion/irritation – Category 2
  - Eye Dam. 1: Serious eye damage/eye irritation – Category 1
  - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
  - Resp. Sens. 1: Respiratory sensitisation – Category 1
  - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
  - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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