

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

Printing date 03.01.2019

Revision: 03.01.2019

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

- **1.1 Product identifier**
- **Trade name:** **Planarit 106**
- **Article number:** 04.106
- **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** Adhesive for industrial applications
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** Planatol GmbH
Fabrikstr. 30 - 32
83101 Rohrdorf
Email: info@planatol.de
Tel.: +49 (8031) 720-0
- **Informing department:** Product safety department.
- **1.4 Emergency telephone number:** Infracerv GmbH & Co. Höchst KG
+49 69 305 6418

SECTION 2: Hazards identification

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



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **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**
- **Hazard statements**

Warning

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

- **Precautionary statements**

P264

Wash thoroughly after handling.

P280

Wear protective gloves.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P332+P313

If skin irritation occurs: Get medical advice/attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

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- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Condensate based on: formaldehyde, urea

- **Dangerous components:**

CAS: 12125-02-9	ammonium chloride	⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319	<1%
EINECS: 235-186-4			

- **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**
- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact** Instantly wash with water and soap and rinse thoroughly.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Rinse out mouth and then drink plenty of water.
- **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 fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture** Formation of poisonous gases during heating or in fires.
- **5.3 Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus. Do not inhale explosion gases or combustion gases.
- **Additional information** Collect contaminated fire fighting water separately. It must not enter drains.

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SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Collect mechanically.
- **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 information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** Dust can combine with air to form an explosive mixture.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
Store in cool and dry location.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Protect from frost.
- **Storage class** 11 (VCI-concept)
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

· Components with limit values that require monitoring at the workplace:

9005-25-8 Starch

WEL Long-term value: 10* 4** mg/m³
*total inhalable **respirable

12125-02-9 ammonium chloride

WEL Short-term value: 20 mg/m³
Long-term value: 10 mg/m³

50-00-0 formaldehyde

WEL Short-term value: 2.5 mg/m³, 2 ppm
Long-term value: 2.5 mg/m³, 2 ppm

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· DNELs

12125-02-9 ammonium chloride

Oral	DNEL long-term exposition - systemic effects	55.2 mg/kg (Consumer)
Dermal	DNEL long-term exposition - systemic effects	128.9 mg/kg (worker)
		55.2 mg/kg (Consumer)
Inhalative	DNEL long-term exposition - systemic effects	43.97 mg/m ³ (worker)
		9.4 mg/m ³ (Consumer)

50-00-0 formaldehyde

Oral	DNEL long-term exposition - systemic effects	4.1 mg/kg (Consumer)
Dermal	DNEL long-term exposition - systemic effects	240 mg/kg (worker)
		102 mg/kg (Consumer)
Inhalative	DNEL long-term exposition - local effects	0.012 mg/cm ² (Consumer)
	DNEL long-term exposition - local effects	0.1 mg/m ³ (Consumer)
	DNEL acute exposition - systemic and local effects	0.75 mg/m ³ (worker)
	DNEL long-term exposition - systemic and local	0.375 mg/m ³ (worker)
	DNEL long-term exposition - systemic effects	3.2 mg/m ³ (Consumer)

· PNECs

12125-02-9 ammonium chloride

PNEC fresh water	0.25 mg/l (fresh water)
PNEC seawater	0.025 mg/l (seawater)
PNEC ground	50.7 mg/kg (ground)
PNEC sewage treatment plant	13.1 mg/l (sewage treatment plant)
PNEC temporary release	0.43 mg/l (temporary release)

50-00-0 formaldehyde

PNEC fresh water	0.44 mg/l (fresh water)
PNEC seawater	0.44 mg/l (seawater)
PNEC ground	0.2 mg/kg (ground)
PNEC sewage treatment plant	0.19 mg/l (sewage treatment plant)
PNEC temporary release	4.4 mg/l (temporary release)

· Additional information:

The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· Personal protective equipment

· General protective and hygienic measures

· Breathing equipment:

Wash hands during breaks and at the end of the work.

Breathing protection in case of dust formation

Filter P3.

· Protection of hands:

Protective gloves (EN 374)

· Material of gloves

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.

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- **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:** Safety glasses
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

- | | |
|------------------|-----------------|
| Form: | Powder |
| Colour: | White |
| Odour: | Characteristic |
| Odour threshold: | Not determined. |

- | | |
|--------------------|---|
| pH-value at 20 °C: | 6 |
|--------------------|---|

· Change in condition

- | | |
|--|----------------|
| Melting point/freezing point: | 120 °C |
| Initial boiling point and boiling range: | Not determined |

- | | |
|--------------|---------|
| Flash point: | >200 °C |
|--------------|---------|

- | | |
|---------------------------------|-----------------|
| Inflammability (solid, gaseous) | Not applicable. |
|---------------------------------|-----------------|

- | | |
|-----------------------|--------|
| Ignition temperature: | 370 °C |
|-----------------------|--------|

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

- | | |
|----------------------|------------------------------|
| Self-inflammability: | Product is not selfigniting. |
|----------------------|------------------------------|

- | | |
|-----------------------|---------------------------|
| Explosive properties: | Product is not explosive. |
|-----------------------|---------------------------|

· Critical values for explosion:

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

- | | |
|----------------------|-----------------|
| Oxidising properties | Not applicable. |
|----------------------|-----------------|

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

- | | |
|---------|----------------|
| Density | Not determined |
|---------|----------------|

- | | |
|--------------------------|-----------------------|
| Settled apparent density | 600 kg/m ³ |
| Relative density | Not determined. |
| Vapour density | Not determined. |
| Evaporation rate | Not determined. |

· Solubility in / Miscibility with

- | | |
|--------|----------------------------------|
| Water: | Not miscible or difficult to mix |
|--------|----------------------------------|

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

· Viscosity:

- | | |
|------------|-----------------|
| dynamic: | Not applicable. |
| kinematic: | Not applicable. |

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· 9.2 Other information

No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No decomposition if used and stored according to specifications.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** Risk of spontaneous polymerization in the presence of strong acids, bases and peroxides. During processing with acids, water and / or heat formaldehyde will be released, which may act as a sensitizer.
- **10.4 Conditions to avoid** avoid overheating
Avoid dust formation
Avoid humidity.
> 40 °C
- **10.5 Incompatible materials:** Organic Peroxides, strong bases, strong acids, acid anhydrides
- **10.6 Hazardous decomposition products:** Formaldehyde

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 that are relevant for classification: | | |
| 12125-02-9 ammonium chloride | | |
| Oral | LD50 | 1,650 mg/kg (rat) |
- **Specific symptoms in biological assay:** rat (by inhalation): 8 h (IRT)
Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard.
Assessment of acute toxicity:
Virtually nontoxic after a single ingestion. Inhalation-risk test (IRT): No mortality within 8 hours as shown in animal studies. The inhalation of a highly saturated vapor-air mixture represents no acute hazard. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
 - **Primary irritant effect:** The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.
 - **Skin corrosion/irritation**

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- **Serious eye damage/irritation** Causes skin irritation.
Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Guinea pig maximization test guinea pig: Caused skin sensitization in animal studies.
May cause an allergic skin reaction.
- **Other information (about experimental toxicology):** The toxicological data mentioned are derived from a similar product.
- **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

- **12.1 Toxicity**
 - **Aquatic toxicity:** There is a high probability that the product is not acutely harmful to aquatic organisms.
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.
- | | |
|-------------|----------------------------|
| LC50 / 96 h | >500 mg/l (Leuciscus idus) |
|-------------|----------------------------|
- **12.2 Persistence and degradability** Moderately/partly eliminable from water.
The substance can be virtually eliminated from water in suitable effluent treatment plants by biodegradation, stripping and mechanical separation.
 - **12.3 Bioaccumulative potential** Accumulation in organisms is not expected.
 - **12.4 Mobility in soil** No further relevant information available.
 - **Ecotoxicological effects:**
 - **Remark:** If appropriate low concentration are introduced to biological treatment plants no inhibition of the degradation activity of the activated sludge is to be anticipated.
 - **Other information:** local water management regulations have to be observed
 - **Additional ecological information:**
 - **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow product to reach ground water, water bodies or sewage system.
 - **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.

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Trade name: Planarit 106· **12.6 Other adverse effects**

No further relevant information available.

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SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**· **Recommendation**

Must not be disposed of together with household garbage.
Do not allow product to reach sewage system.
Disposal according to local regulations.

· **Waste disposal key number:**

According to the European waste listing (Europäischer Abfallkatalog EAK), no waste key code can be determined as such a code depends on the individual application of the product by its user. The national and local legal guidelines are to be observed.

· **Uncleaned packagings:**· **Recommendation:**

Disposal must be made according to official regulations.

SECTION 14: Transport information

· **14.1 UN-Number** not applicable· **ADR, ADN, IMDG, IATA** Void· **14.2 UN proper shipping name** not applicable· **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

· **Directive 2012/18/EU**· **Named dangerous substances - ANNEX I**

None of the ingredients is listed.

· **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 65

· **National regulations**· **Water hazard class:**

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

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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out. (Contd. of page 8)

SECTION 16: Other information

These data are based on our present knowledge. However, they 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.
H319 Causes serious eye irritation.
- **Department issuing data specification sheet:** Planatol GmbH
info@planatol.de
- **Contact:** S.O.
- **Abbreviations and acronyms:** ADR: Accord européen sur le transport 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)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
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 Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1: Skin sensitisation – Category 1
- *** Data compared to the previous version altered.**