

Safety datasheet according to EU Regulation 1907/2006

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Date of issue: 30.06.2008 Supersedes the datasheet from: ---

*** Changes over predecessor, n.a. = not applicable, n.v. = not available

1 IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND OF THE COMPANY

1.1 Identification of the substance or preparation

Trade name: Granolin

Item no.: n.v.

Formula no.: n.v.

Registration number: n.v.

1.2 Application of the substance/preparation:

Cleaning agent

1.3 Identification of the company

1.3.1 Address of the manufacturer/supplier:

Wenzel Präzision GmbH, Werner-Wenzel-Straße, D- 97859 Wiesthal

Telephone: 06020-2010, Fax: 06020-2011999, E-Mail: info@wenzel-cmm.com

1.3.2 Responsible for the datasheet:

Chemie & Vorschrift, Kannheideweg 35, D - 53123 Bonn-Duisdorf, E-Mail: info@chemie-vorschrift.de

1.4 Emergency number

Advice centre for poisoning

Telephone: 0761 - 19240

Emergency telephone of the manufacturer/suppliers

Telephone: 06020-2010 (08:30 - 16:30 hours)

2 POSSIBLE HAZARDS

2.1 For human beings (for supplementary details, see point 11):

Harmful: Harmful if swallowed. Suspicion of carcinogenic effect. Risk of serious damage to eyes. Irritates the skin. Has a degreasing effect on the skin.

2.2 For the environment:

The product can damage bodies of water by increasing the pH value.

2.3 For materials:

Corrosive to metals.

3 COMPOSITION/DATA ON COMPONENTS

3.1 Chemical characterization:

Aqueous mixture of detergent substances

3.2 Dangerous ingredients:

CAS no.,	Index no.,	EG no.,	Designation	m% area	Symbol	R phrases
5064-31-3	n.v.	225-768-6	Trisodium nitrilotriacetate	10 - 25%	Xn	R 22-36/38-40
111-76-2	603-014-00-0	203-905-0	2-Butoxyethanol	2,5 - 10%	Xn	R 20/21/22-36/38
n.v.	n.v.	n.v.	Polymer based on long-chain alcohols, C10, iso, ethoxylation	2,5 - 10%	Xn	R 22-41
64265-45-8	n.v.	264-761-2	N-(2-hydroxyethyl)-N-[2-[(1-oxooctyl)amino]ethyl]-L-alanine	2,5 - 10%	Xi	R 36/38
1310-58-3	019-002-00-8	215-181-3	potassium hydroxide	< 2%	C	R 22-35

Notes: For classification and designation of a preparation, see point 15. See full text of R phrases point 16.

4 FIRST AID MEASURES

4.1 After inhalation:

After removing the product/combustion gas inhalation, remove from the danger zone and ensure ample fresh air. If symptoms persist, seek medical attention.

4.2 After contact with the

skin:

Rinse with water.

In case of persistent skin irritation, seek medical attention.

4.3 After contact with the

eyes:

Obtain immediate

medical attention.

Immediately irrigate the eye copiously with water, keeping the eyelid open.

4.4 After ingestion:

Obtain immediate

medical attention.

Rinse out the mouth and drink ample quantities of water. Do not induce vomiting.

- 4.5 **Instructions for the doctor:**
The following symptoms can occur: Nausea. Danger of perforation of the stomach. Treat according to symptoms.
- 4.6 **Special material required for first aid:**
n.v.

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5 FIREFIGHTING MEASURES

- 5.1 **Suitable extinguishing media:** Foam, powder, CO₂. Waterspray
- 5.2 **Unsuitable extinguishing media for reasons of safety:** Water jet
- 5.3 **Particular hazards due to the substance, the waste products of combustion or gases produced:**
In the case of combustion, the following substances can be formed: Organic crack products and carbon monoxide, nitric oxide (NO_x), phosphorus oxide (e.g. P₂O₅).
- 5.4 **Special protective equipment:** Wear ambient air-independent breathing apparatus. Hermetically sealed chemical protection suit.
- 5.5 **Additional notes:** Fire-resistant product; coordinate fire-fighting measures to fire situation.

6 ACCIDENTAL RELEASE MEASURES

- 6.1 **Person-related safety precautions:**
See no. 8.3, personal protective gear.
Particular danger of slipping due to leaking/spilled product.
- 6.2 **Measures for environmental protection and cleaning:**
Do not allow to enter the drainage system/surface water/ground water. In the case of accidental release, inform the responsible authorities. Absorb with liquid-binding material. Dispose of contaminated material according to regulations.
- 6.3 **Additional notes:** Prevent the danger of slipping through the spreading mineral granular materials.

7 HANDLING AND STORAGE (National Regulations, see point 15.2)

- 7.1 **Handling**
- 7.1.1 **Information for safe handling:**
Ensure adequate ventilation. Avoid formation of aerosols.
- 7.1.2 **Information on protection against explosions and fires:**
No special measures required.
- 7.2 **Storage**
- 7.2.1 **Requirements to be met by storerooms and containers:**
Keep containers tightly closed. Only store in original containers. Do not use lightweight metal containers.
- 7.2.2 **Information about storage in one single storage facility:**
Do not store together with oxidizing agents.
- 7.2.3 **Further information about storage conditions:**
Protect against frost. Protect against solar radiation. Protect against heating/overheating.
- 7.3 **Designated application(s):** n.v.

8 EXPOSURE LIMITS AND MONITORING/PERSONAL PROTECTION

- 8.1 **Exposure limits:**
- | Name of the substance | Monitoring value: |
|------------------------------|--|
| 2-Butoxyethanol | AGW 20 ppm; BAT Butoxy ethanoic acid, 100 mg/l, U, c |
- 8.2 **Exposure limits and monitoring**
- 8.2.1 **Exposure limits and monitoring at the workplace:**
Avoid contact with the eyes and the skin. Do not inhale fumes. Do not eat, drink or smoke while working.
Immediately remove any soiled and impregnated clothing. Wash the hands before breaks and at the end of the working period.
- 8.2.1a **Breathing equipment:** Use breathing equipment if there is insufficient ventilation. (wide range filter ABEK)
- 8.2.1b **Hand protection:** Solvent resistant gloves (butyl rubber, permeation time > 8 h)
- 8.2.1c **Eye protection:** Closely fitting safety glasses
- 8.2.1d **Body protection:** Light protective clothing
- 8.2.1e **Other:** Heed wear time limitations
- 8.2.2 **Exposure limits and monitoring** n.v.

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 General information

9.1.1 **Form:** liquid 9.1.2 **Colour:** blue 9.1.3 **Smell:** mild

9.2 Important information on health and environmental protection as well as safety

9.2.1 pH value, undiluted: 13, pH value, 1% in water: n.v.
 9.2.2 Boiling point/Boiling range (°C): > 100, Melting point/Melting range (°C): n.v.
 9.2.3 Flashpoint (°C): n.a., in closed crucible
 9.2.4 Inflammability (EG A10/A13): No.
 9.2.5 Ignition temperature (°C): 200
 9.2.6 Autoflammability (EG A16): None.
 9.2.7 Combustible properties: No.
 9.2.8 Danger of explosion: No.
 9.2.9 Explosion limits (Vol %), lower: n.v., upper: n.v.
 9.2.10 Steam pressure: n.v.
 9.2.11 Density (g/ml): 1,16
 9.2.12 Solubility (in water): miscible
 9.2.13 Distribution coefficient, n octanol/water: n.v.
 9.2.14 Viscosity: n.v.
 9.2.15 Solvent separation test: n.v.
 9.2.16 Solvent content (Wt %): None.
 9.3 **Other information**
 9.2.17 Thermal decomposition (°C): n.v.
 9.2.18 Vapour density (air = 1): n.v.
 9.2.19 Evaporation rate: n.v.

10 STABILITY AND REACTIVITY

10.1 **Conditions to be avoided:**
 Protect against solar radiation. Protect against frost.
 10.2 **Substances to be avoided:**
 Reactions with strong oxidizing agents. Reactions with different metals. Reactions with acids.
 10.3 **Dangerous decomposition products:**
 Stable at ambient temperature. No dangerous decomposition products if used according to specifications.
 10.4 **Further data:**
 None.

11 TOXICOLOGICAL INFORMATION

11.1 Toxicological tests

11.1.1 Acute toxicity:

Inhalation, LC₅₀ mouse and rat (mg/l/4h): n.v.
 Ingestion, LC₅₀, mouse and rat, (mg/kg): n.v.
 Contact with the skin, LC₅₀, mouse and rat, (mg/kg): n.v.
 Irritant/corrosive effect (on skin/eyes): Risk of serious damage to eyes. Irritates the skin.
 Sensitisation: No.

11.1.2 Subacute/chronic toxicity:

Carcinogenicity:
 Cat.3 Suspicion of carcinogenic effect.
 Mutagenicity: n.v.
 Teratogenicity: n.v.
 Narcotic effect: n.v.

11.2 Experiences from practise

11.2.1 Categorization-relevant observations: None.
 11.2.2 Other observations:
 More frequent or long-term contact can lead to irritations and skin infections (dermatitis).

11.3 General comments:

The classification of the preparation was carried out according to the calculation method.

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12 ENVIRONMENTAL ISSUES

121 Ecotoxicity:

According to the current level of knowledge no negative ecological effects are expected.

122 Mobility: n.v.

123 Persistence and degradability:

The organic part of the product is readily degradable in acc. with the criteria of the biological OECD (readily biodegradable).

124 Bioaccumulation potential n.v.

125 Result from the determination of the PBT properties

n.v.

126 Further information on ecology

12.6.1 COD value, mg/g: n.v.

12.6.2 BOD₅ value, mg/g: n.v.

12.6.3 Absorbable organic halogens (AOX) index: n.a.

12.6.4 Ecologically significant constituents: Tenside

12.6.5 Other hazardous effects: None.

13 NOTES FOR DECONTAMINATION (National Regulations, see point 15.)

131 For product residues

13.1.1 Recommendation: D 10/R1 Disposal code no.: 20 01 29 In

addition, heed local regulatory provisions.

13.1.2 Safe handling: See points 7 and 15.

132 For uncleaned packagings

13.2.1 Recommendation: Rinse with suitable cleaning agent. Otherwise, as for product residues.

13.2.2 Safe handling: As for product residues.

14 TRANSPORT INFORMATION

14.1 Overland transport: Classification acc. to ADR and RID / GGVSE (cross-border/domestic)

Comment:

Designation: UN 1814 Potassium hydroxide solution

Class: 8 UN no.: 1814

Classification code: C5 Packaging group: III

Bef category: 3 Restricted amount: LQ 7

Dangerous goods label:

Disposal code no.: 80

14.2 Transport by inland waterway vessel: Classification acc. to ADN / GGVBinnSch

Remark: A classification was not carried out.

Class: No./Letter: Category:

14.2.1 **Designation of the goods:** 14.2.2 **Comment:**

14.3 Maritime transport: Classification acc. to IMDG / GGVSea

Remark:

Class: 8 UN no.: 1814

Packaging group: III

14.3.1 **EMS no.:** F-A, S-B

14.3.2 **Marine pollutant:** No.

14.3.3 **Note for responsible clarification and identification:** Correct techn.

name: Potassium hydroxide solution **Hazard label:**

Corrosive

14.3.4 **Comment:** None.

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14.4 Air transport: Classification acc. to IATA-DGR/ICAO-TI

Comments:

Class: 8 UN no.: 1814 Packaging group: III

14.4.1 Note for responsible clarification and identification: Proper shipping

name: Potassium hydroxide solution

Hazard label: Corrosive packaging instructions:

Passenger 819 Cargo: 821

14.4.2 Comments: None.

15 REGULATORY INFORMATION

15.1 Designation according to GefStoffV/EU guidelines:

Liable to labelling in acc. with Ordinance on Hazardous Materials (GefStoffV): Yes Have exceptions been applied for: No.

Hazard label(s): Harmful: Hazard symbol(s):

Component(s): contains: Nitrilotriacetic acid, sodium salt, butoxyethanol

Risk (R) phrases:

R 22: Harmful if ingested.

R 38: Irritates the skin.

R 41: Risk of serious damage to eyes.

R 40: Suspicion of carcinogenic effect.

Safety (S) phrases:

S 2: Keep out of the reach of children.

S 26: On contact with the eyes, immediately irrigate eyes with water and consult a doctor.

S 37/39: Wear suitable protective gloves and safety glasses/face guard while working.

S 46: If ingested, immediately seek medical advice and show packaging or label.

Special identifications:

Affix tactual warning notice.

15.1.1 The identification mentioned above applies to handover to private end users.

15.2 National regulations

15.2.1 Heed restricted employment in acc. with MuSchG / JArbSchG: Yes

15.2.2 Heed duty to preserve records in acc. with § 8 (6) GefStoffV: Yes

15.2.3 Heed Hazardous Incidence (Reporting) Ordinance: No.

15.2.4 Technical Instructions on Air Quality: Class: Class Share in % I 5.2.5 2,5 - 10

15.2.5 Water risk class: 2 (classification in acc. to VwVwS)

15.2.6 Storage class: 8 (VCI concept)

15.2.7 Heed regulatory area of TRGS 514: No.

15.2.8 Heed regulatory area of TRGS 515: No.

15.2.9 Heed regulatory area of TRGS 300: No.

15.2.10 Heed regulatory area of WRMG: No.

15.2.11 Hazardous to health in the sense of § 2 Paragraph 3 of the German Packaging Ordinance: Yes

15.2.12 Other regulations that must be observed: None.

16 OTHER INFORMATION

R phrases from chapter 3

R 20/21/22: Harmful if inhaled, ingested or on contact with the skin.

R 22: Harmful if ingested.

R 35: Causes severe burns.

R 36/38: Irritating to eyes and the skin.

R 40: Suspicion of carcinogenic effect.

R 41: Risk of serious damage to eyes.

This datasheet was created in accordance with EU Regulation 1907/2006 and TRGS 220.

These data are based on our present knowledge and experience on the date of issue. However, they shall not constitute a guarantee for any specific product features. They must be neither changed nor transferred to other products. Reproduction of the datasheet is allowed in its unchanged form.

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Data input: 19.05.2008, wez002