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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Premnötr N

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

Use pattern : Textile auxiliary

1.3 Details of the supplier of the safety data sheet

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SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to regulation (EC) 1272/2008 on classification, labelling and packaging of substances and mixtures

Causes serious eye irritation. Causes skin irritation.

Harmful in contact with skin. Harmful if swallowed.

May cause an allergic skin reaction. Very toxic to aquatic life.

May be corrosive to metals.

Suspected of causing cancer.

May cause damage to organs through prolonged or repeated exposure.

Classification of the Substance or Mixture

Acute Toxicity: Cat. 4 (oral) Acute Toxicity: Cat. 4 (dermal)

Corrosive to metals, Hazard Category 1

Skin corrosion/irritation: Irritant, Cat. 2

Serious eye damage/eye irritation: Irritating to eyes, Cat. 2

Respiratory or skin sensitisation: Skin Sensitisation, Cat. 1B

Carcinogenicity, Hazard Category 2

Specific target organ toxicity — Single exposure, Category 2

Hazardous to the aquatic environment: Acute Category 1

Possible Hazards according Directive 67/548/EEC or 1999/45/EC

Limited evidence of a carcinogenic effect.

Harmful if swallowed.

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Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Irritating to eyes and skin.

May cause sensitization by skin contact.

Very toxic to aquatic organisms

2.2 Label elements



corrosion



environment



health hazard



exclamation mark

Signal word:

Warning

Hazard Statements:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H312	Harmful in contact with skin.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H290	May be corrosive to metals.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P273	Avoid release to the environment.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P202	Do not handle until all safety precautions have been read and understood.
P272	Contaminated work clothing should not be allowed out of the workplace.
P270	Do not eat, drink or smoke when using this product.
P234	Keep only in original container.

Precautionary Statements (Response):

P311	Call a POISON CENTER or doctor/physician.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P361	Remove/Take off immediately all contaminated clothing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
P362	Take off contaminated clothing and wash before reuse.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P390	Absorb spillage to prevent material-damage.

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Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to waste treatment in accordance with national regulations.

2.3 Other hazards

If applicable in this section are given hazards which are not part of the overall classification but can contribute to the hazards which may be associated with the substance or mixture.
not applicable

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance

Chemical characterization: hydroxyl ammonium sulphate

Hazardous Ingredients (GHS) according Regulation (EC) 1272/2008

Hydroxylammonium sulphate

Content:	> 99 %	Met. Corr. 1	H290
EC Number:	233-118-8	Acute Tox. 4 (oral)	H302
CAS Number:	10039-54-0	STOT RE 2	H373
		Skin Irrit. 2	H315
		Skin Sens. 1B	H317
		Eye Irrit. 2	H319
		Aquatic. Acute 1	H400
		Acute Tox. 4 (dermal)	H312
		Carc. 2	H351

Hazardous Ingredients according Directive 1999/45/EC

Hydroxylammonium sulphate

Content:	> 99 %	Hazard symbols: E, Xn , N
EC Number:	233-118-8	R phrases: 2 - 21/22 - 36/38 - 40 - 43 -
CAS Number:	10039-54-0	48/22 - 50

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information: Take off immediately all contaminated clothing.

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After inhalation: After inhalation move to uncontaminated area for fresh air treatment, keep warm, let rest. Consult a physician. If decomposition products are inhaled, remove the affected person to a source of fresh air and keep him calm. Provide medical aid. Cortisone spray should be inhaled immediately after inhalation of the substance to prevent toxic pulmonary oedema.

After contact with skin: Cleansing with plenty of water, soap or other non-irritating cleansing agents.

After contact with eyes: Contamination of the eyes must be treated by thorough irrigation with water, with the eyelids held open. A doctor (or eye specialist) should be consulted immediately.

After ingestion: Rinse mouth out immediately and drink plenty of water. Consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Please see hazard statements in section 2.2 if given and information in this section if stated.

4.3 Indication of any immediate medical attention and special treatment needed

Please see precautionary statements in section 2.2 as well as first aid information in this section if stated.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media:

Suitable extinguishing media: Product itself is non-combustible; Fire extinguishing method of surrounding areas must be discussed., water mist, foam, dry powder

Extinguishing media that must not be used for safety reasons: not determined

5.2 Special hazards arising from the substance or mixture

Sulphur dioxide (SO₂) Sulphur trioxide (SO₃) Nitrous gases (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighting: Firemen have to wear self-contained breathing apparatus.

Further information: In the event of an adjacent fire, cool container down with water spray, if possible removing it from the fire area. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid formation and deposition of dust. Do not breathe dust. Avoid contact with skin and eyes.

6.2 Environmental precautions

Do not empty into drains or waters.

6.3 Methods and material for containment and cleaning up

Take up spilled product with dust-binding material or suitable vacuum cleaner. Fill into labelled, sealable containers.

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6.4 Reference to other sections

Additional information: For further disposal measures see chapter 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Advice on safe handling: Avoid formation and deposition of dust.

Ensure adequate ventilation and, if necessary, exhaust ventilation when handling or transferring the product.

Advice on protection against fire and explosion: Product is not combustible.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Store in original container in a cool, dry place. Do not allow product temperature to exceed 80 °C.

Advice on storage compatibility: Do not store together with alkali reactive substances or Nitrites. Keep away from oxidising agents. Do not store together with metals.

Further information on storage conditions: Explosives law (Germany): substance group C Regulation to the explosives law (Germany): storage group III (Substances which possess an AK value (substance throuput) below 60 kg/min)

Storage class: 4.1A Flammable solids

Storage stability: not determined

7.3 Specific end use(s)

not determined

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored

Contains: Hydroxylammonium sulphate

Observe national regulations.

8.2 Exposure controls

General protective measures: Do not breathe dust. Avoid contact with eyes and skin. Take off immediately all contaminated clothing.

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Hygiene measures: Keep away from food and drink stuffs.

Do not eat, drink or smoke at work.

Wash hands before breaks and at end of work and use skin-protecting ointment.

Respiratory protection : Dust mask with particle filter. Respiratory protection in case of insufficient exhaust ventilation or prolonged exposure.

Hand protection : Wear suitable gloves e.g. of PVC or nitrile rubber. In the event of contamination, change protective gloves immediately.

Eye protection : safety glasses with side protection shield

Body protection : Wear protective clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Physical state: crystalline
Colour: white
Odour: odourless
pH: 3,6 (20 °C, 10 g/l)

9.2 Other information

Combustion number : not determined
Dust explosion class : not determined
Bulk density : 1.100 kg/m³

Further information (phys.-chem.) not necessary

SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions

10.2 Chemical stability

Thermal decomposition from 120 °C
Decomposition may extend over the whole product quantity.

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10.3 Possibility of hazardous reactions

Hazardous reactions: Reaction with Alkalis and Nitrites. oxidizing agents alkalis Reactions with metals in powder form. Heavy metal salts

Hazardous decomposition products: Sulphurous oxides (SOx) Nitrogen oxides (NOx) Hydroxylamine

10.4 Conditions to avoid

Do not allow product temperature to exceed 80 °C.

10.5 Incompatible materials

Bases nitrites oxidizing agent nitrates Heavy metal salts

10.6 Hazardous decomposition products

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD₅₀ 600 - 700 mg/kg (rat)
Acute inhalation toxicity : (8 h, rat)
Method : Inhalation risk test
No mortality after exposure to an enriched saturated atmosphere at 20 °C.
Acute dermal toxicity : LD₅₀ 1.500 - 2.000 mg/kg (rabbit)
Irritant effect on skin : irritant (rabbit)
Irritant effect on eyes : irritant (rabbit eye)
Sensitization : sensitizing (Guinea pig)
Method : Maximisation Test
Repeated dose toxicity: not determined
Mutagenicity: not determined
Teratogenicity : No indications of a developmental toxic / teratogenic effect were seen in animal studies.
Carcinogenicity : In long-term studies in rats and mice in which the substance was given by drinking water, a carcinogenic effect was observed.

Remarks : Methaemoglobin formation observed in animal tests (cat). The substance may cause damage to the hematological system even after repeated ingestion of low doses, as shown in animal studies.

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SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Fish toxicity : LC₅₀ 1 - 10 mg/l (96 h, Pimelphales promelas) (literature-information)
Daphnia toxicity : EC₅₀ 1 - 10 mg/l (48 h, Daphnia magna)
Method : OECD 202 / ISO 6341 / EEC 84/449/V, C2
Algae toxicity : EC₅₀ < 1,0 mg/l (72 h, Scenedesmus subspicatus)
Method : OECD 201 / ISO 8692 / EEC 88/302/V, C
Bacteria toxicity : EC₂₀ < 1,0 mg/l (3 h, activated sludge)
Method : OECD 209

12.2 Persistence and degradability

Physico-chemical eliminability : not determined
Biodegradability : Inorganic product, cannot be eliminated from the water by biological purification processes
Behaviour in environmental compartments: not determined
Dissolved Organic carbon (DOC): not determined
Chemical oxygen demand (COD): not determined
Biochemical oxygen demand (BOD5): not determined

Remarks: Do not release into waterways untreated

Due to the pH-value of the product, neutralization is generally required before discharging sewage into treatment plants.

Product does not add to the AOX-value of the sewage. (DIN EN 1485)

The product does not contain phosphates or organophosphorus compounds.

The product does not contain heavy metals in concentrations of concern for waste water.

12.3 Bioaccumulative potential

On the basis of the partition coefficient n-octanol/water (log Pow) no significant accumulation in organisms is expected.

12.4 Mobility in soil

not determined

12.5 Results of PBT and vPvB assessment

not determined

12.6 Other adverse effects

not determined

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product: If utilisation or recycling of the product is not possible, it should be disposed of according to the local regulations and laws, e. g. by incineration in a suitable plant. Address manufacturer.

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Uncleaned packaging: Soiled, empty containers are to be treated in the same way as the contents.

SECTION 14: TRANSPORT INFORMATION

ADR	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III Environmentally hazardous substance
ADNR	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III Environmentally hazardous substance
RID	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III Environmentally hazardous substance
IMDG	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III Marine pollutant EmS: F-A , S-B
IATA_C	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III
IATA_P	UNNR: 2865 Hydroxylamine sulphate Class: 8 PG:III

14.1 UN number

See above entry at the respective regulation.

14.2 UN proper shipping name

See above entry at the respective regulation.

14.3 Transport hazard class(es)

See above entry at the respective regulation.

14.4 Packing group

See above entry at the respective regulation.

14.5 Environmental hazards

See above entry at the respective regulation.

14.6 Special precautions for user

Slightly corrosive

Environmentally hazardous substance

Keep separated from foodstuffs.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

No transport in bulk according to Annex II of MARPOL 73/78 and the IBC code foreseen for this substance or mixture.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or****Labelling in accordance with Annex I of directive 67/548/EEC and its amendments and adaptations:**

Hazard symbols:	E	Explosive
	Xn	Harmful
	N	Dangerous for the environment

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contains: Hydroxylammonium sulphate
R2 : Risk of explosion by shock, friction, fire or other sources of ignition.
R21/22 : Harmful in contact with skin and if swallowed.
R36/38 : Irritating to eyes and skin.
R40 : Limited evidence of a carcinogenic effect.
R43 : May cause sensitization by skin contact.
R48/22 : Harmful: danger of serious damage to health by prolonged exposure if swallowed.
R50 : Very toxic to aquatic organisms.
S36/37 : Wear suitable protective clothing and gloves.
S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.
TA-Luft (Ger.) : Not applicable
Water Hazard Class (Ger.) : WGK 3 - high impairment of water quality WGK = Classification in accordance with the German Water Resources Act Annex 3 VwVwS (Germany) dated Mai, 17th 1999

15.2 Chemical safety report
not determined

SECTION 16: OTHER INFORMATION

Text of all shortcuts referred to in sections 2 and 3:

E Explosive
Xn Harmful
N Dangerous
2 Risk of explosion by shock, friction, fire or other sources of ignition.
22 Harmful if swallowed.
40 Limited evidence of a carcinogenic effect.
43 May cause sensitization by skin contact.
50 Very toxic to aquatic organisms.
21/22 Harmful in contact with skin and if swallowed.
36/38 Irritating to eyes and skin.
48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.

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Aquatic. Acute 1	Hazardous to the aquatic environment: Acute Category 1
Acute Tox. 4 (dermal)	Acute Toxicity: Cat. 4 (dermal)
Acute Tox. 4 (oral)	Acute Toxicity: Cat. 4 (oral)
Carc. 2	Carcinogenicity, Hazard Category 2
Eye Irrit. 2	Serious eye damage/eye irritation: Irritating to eyes, Cat. 2
Met. Corr. 1	Corrosive to metals, Hazard Category 1
Skin Sens. 1B	Respiratory or skin sensitisation: Skin Sensitisation, Cat. 1B
Skin Irrit. 2	Skin corrosion/irritation: Irritant, Cat. 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2