

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 16.02.2005




* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Ammonia Nitrogen Set (Vario Ammonia Cyanurate F10)
- **Catalog number:** 251 408 **Model:** NH4-1 TP
- **Supplier:**
 WTW Wissenschaftlich-Technische Werkstätten GmbH
 Dr.-Karl-Slevogt-Straße 1
 D-82362 Weilheim Tel.: +49(0)881 183-0 Internet: <http://www.WTW.com>
 Fax: +49(0)881 183-420 Tel.: +49(0)881 183-100 E-Mail: Info@WTW.com
- **Emergency information:**
 Poison Center Berlin, Germany
 Tel.: +49(0)30 19240

* 2 Composition/Data on components:

- **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous components:

CAS: 1310-65-2 EINECS: 215-183-4	lithium hydroxide	 C; R 22-35	5-10%
CAS: 51580-86-0 EINECS: 220-767-7 EC Number: 613-030-01-7	sodium dichloroisocyanurate, dihydrate	 Xn,  N; R 22-31-36/37-50/53	≤ 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

- **Hazard designation:**



C Corrosive

- **Information pertaining to particular dangers for man and environment**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 35 Causes severe burns.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

- **Classification system**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

* 4 First aid measures

- **General information** Instantly remove any clothing soiled by the product.
- **After inhalation**
 Supply fresh air or oxygen; call for doctor.

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In case of unconsciousness bring patient into stable side position for transport.

- **After skin contact**

Instantly rinse with water.

Instantly wash with polyethylene glycol 400.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

- **After eye contact**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

- **After swallowing**

Drink copious amounts of water and provide fresh air. Instantly call for doctor.

Seek medical treatment.

- **The following symptoms may occur:**

after inhalation:

damage to the affected mucous membranes possible

after swallowing:

Strong caustic effect.

headache

sickness

vomiting

breathing difficulty

coughing

cramps

- **Danger**

Danger of system failure.

Danger of gastric perforation.

Danger of impaired breathing.

- **Treatment**

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

Subsequent observation for pneumonia and pulmonary oedema

* 5 Fire fighting measures

- **Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

- **Special hazards caused by the material, its products of combustion or resulting gases:**

Formation of toxic gases is possible during heating or in case of fire.

Nitrogen oxides (NO_x)

Hydrogen chloride (HCl)

- **Protective equipment:**

Wear self-contained breathing apparatus.

Wear full protective suit.

- **Additional information**

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Collect contaminated fire fighting water separately. It must not enter drains.

* 6 Accidental release measures

- **Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

- **Measures for environmental protection:**

Do not allow product to reach sewage system or water bodies.

Inform respective authorities in case product reaches water or sewage system.

- **Measures for cleaning/collecting:**

neutralize with diluted sulphuric acid

Dispose of contaminated material as waste according to item 13.

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Ensure adequate ventilation.

* 7 Handling and storage

- **Handling**
- **Information for safe handling:**
 - Open and handle container with care.
 - Prevent formation of dust.
 - Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:**
 - Protect from heat.
 - The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:**
 - Do not store together with acids.
 - Store away from oxidizing agents.
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Store under dry conditions.
 - Protect from humidity and keep away from water.
 - Protect from the effects of light.
- **Storage class** Not required.

* 8 Exposure controls and personal protection

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

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

1310-65-2 lithium hydroxide

OES (Great Britain)	Short-term value: 1 mg/m ³
	ILV

51580-86-0 sodium dichloroisocyanurate, dihydrate

MEL (Great Britain)	Short-term value: 0.07 mg/m ³
	Long-term value: 0.02 mg/m ³
	Sen; as -NCO

- **Additional information:** The lists that were valid during the compilation were used as basis.

· **Personal protective equipment**

· **General protective and hygienic measures**

- Keep away from foodstuffs, beverages and food.
- Take off immediately all contaminated clothing
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.

- **Recommended filter device for short term use:** Filter P2

· **Protection of hands:**

- Alkaline resistant gloves
- Only use chemical-protective gloves with CE-labelling of category III.
- The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
- After use of gloves apply skin-cleaning agents and skin cosmetics.

· **Material of gloves**

- Nitrile
- Recommended thickness of the material: ≥ 0.11 mm

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Product name: Ammonia Nitrogen Set (Varion Ammonia Cyanurate F10)

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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.

· 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.

Value for the permeation: Level ≥ 6 (480 min)

· Eye protection: Tightly sealed safety glasses.

· Body protection: Alkaline resistant protective clothing

* 9 Physical and chemical properties:

· Form:	Powder
· Colour:	White
· Odour:	Characteristic
· Melting point/Melting range:	Not determined
· Boiling point/Boiling range:	925°C
· Flash point:	Not applicable
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Density	Not determined
· Solubility in / Miscibility with Water:	Soluble
· pH-value (40.4 g/l) at 20°C:	12.5
· Solvent content:	
Organic solvents:	0.0 %
· Solids content:	100.0 %

* 10 Stability and reactivity

· Thermal decomposition / conditions to be avoided: To avoid thermal decomposition do not overheat.

· Materials to be avoided:

oxidizing agents

alkali metals

acids

· Dangerous reactions

Corrosive action on metals

Corrodes aluminium

Reacts with metals forming hydrogen

---> Explosive

· Dangerous products of decomposition:

Hydrogen chloride (HCl)

Chlorine compounds

see chapter 5

* 11 Toxicological information

· Acute toxicity: Quantitative data on the toxicity of the preparation are not available.

· LD/LC50 values that are relevant for classification:

7647-14-5 sodium chloride

Oral	LD50	3000 mg/kg (rat)
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Product name: Ammonia Nitrogen Set (Vario Ammonia Cyanurate F10)

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Dermal	LD50	> 10000 mg/kg (rabbit)
1310-65-2 lithium hydroxide		
Oral	LD50	210 mg/kg (rat)
51580-86-0 sodium dichloroisocyanurate, dihydrate		
Oral	LD50	1400 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rabbit)

- **Primary irritant effect:**

- **on the skin:** Strong caustic effect on skin and mucous membranes.

- **on the eye:** Strong caustic effect.

- **Sensitization:** No sensitizing effect known.

- **Experience with humans:**

- Can cause liver damages.

- Can cause kidney damages.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Corrosive

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

* 12 Ecological information:

- **Information about elimination (persistence and degradability):**

- **Other information:**

Quantitative data on the ecological effect of this product are not available.

Does not cause biologic oxygen deficit.

- **Ecotoxic effects:**

- **Aquatic toxicity:**

7647-14-5 sodium chloride

EC50 1000 mg/l/48h (Daphnia magna)

LC50 7650 mg/l/96h (Pimephales promelas)

- **Remark:**

Forms corrosive mixtures with water even if diluted.

Harmful to aquatic organisms

Harmful to fish

- **Additional ecological information:**

The following applies to lithium compounds in general:

MERCK - biological effects:

fish toxic from 100 mg/l up

Daphnia toxic from 16 mg/ up

plants toxic from 0.2 mg/l up (value calculated as Li)

- **General notes:**

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

* 13 Disposal considerations

- **Product:**

- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

16 05 07 discarded inorganic chemicals consisting of or containing dangerous substances

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Product name: Ammonia Nitrogen Set (Vario Ammonia Cyanurate F10)

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- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

* 14 Transport information

· **ADR/GGVS:** UN 3316 CHEMIE-TESTSATZ; 9, II

IMDG/GGVSee: UN 3316 CHEMICAL KIT, 9, II
EMS-Number: F-A S-P

· **ICAO/IATA:** CHEMICAL KIT , 9, UN 3316, II

* 15 Regulatory information

- **Designation according to EC guidelines:**
The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)
- **Code letter and hazard designation of product:**
C Corrosive
- **Hazard-determining components of labelling:**
lithium hydroxide
- **Risk phrases:**
35 Causes severe burns.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Product name: Ammonia Nitrogen Set (Vario Ammonia Cyanurate F10)

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· Safety phrases:

- 20 When using do not eat or drink.
 - 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 - 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
 - 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
 - 60 This material and its container must be disposed of as hazardous waste.
 - 61 Avoid release to the environment. Refer to special instructions/safety data sheets.
-

***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 R-phrases

- 22 Harmful if swallowed.
- 31 Contact with acids liberates toxic gas.
- 35 Causes severe burns.
- 36/37 Irritating to eyes and respiratory system.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· **Department issuing data specification sheet:** Department TSS, Dr. Manfred Kaul

· **Data compared to the previous version altered.**

GB

Material Safety Data Sheet

According to 91/155 EEC

Reviewed on 17.02.2005



* 1 Identification of substance:

- **Product details:** Reagent for water analysis
- **Product name:** Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)
- **Catalog number:** 251 408 **Model:** NH4-1 TP
- **Supplier:**
WTW Wissenschaftlich-Technische Werkstätten GmbH
Dr.-Karl-Slevogt-Straße 1
D-82362 Weilheim
+49(0)881 183-420
Tel.: +49(0)881 183-0
Tel.: +49(0)881 183-100
Internet: <http://www.WTW.com>
E-Mail: Info@WTW.com
- **Emergency information:**
Poison Center Berlin, Germany
Tel.: +49(0)30 19240

* 2 Composition/Data on components:

- **Description:** Mixture of the substances listed below with harmless additions.

· Dangerous components:

CAS: 54-21-7 EINECS: 200-198-0	sodium salicylate	 Xn; R 22-36	45-50%
CAS: 13755-38-9 EINECS: 238-373-9	sodium nitroprusside dihydrate	 T; R 25	≤ 2.5%

- **Additional information** For the wording of the listed risk phrases refer to section 16.

* 3 Hazards identification

· Hazard designation:



Xn Harmful

· Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

· Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

* 4 First aid measures

· General information

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation** Supply fresh air and call for doctor for safety reasons.

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Product name: Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)

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- **After skin contact**
Instantly rinse with water.
If skin irritation continues, consult a doctor.
- **After eye contact**
Rinse opened eye for several minutes under running water.
Call a doctor immediately.
- **After swallowing**
Drink copious amounts of water, induce vomiting.
Seek immediate medical advice.
- **The following symptoms may occur:**
after inhalation:
coughing
mucous membrane irritation
breathing difficulty
after swallowing:
headache
Dizziness
Fever
Disorientation
sickness
vomiting
gastric pain
diarrhoea
drop in blood pressure
cramps
- **Danger** Danger of system failure.

* 5 Fire fighting measures

- **Suitable extinguishing agents**
CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **Special hazards caused by the material, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NO_x)
cyanide compounds, sodium monoxide
- **Protective equipment:**
Wear self-contained breathing apparatus.
Wear full protective suit.
- **Additional information**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.
Collect contaminated fire fighting water separately. It must not enter drains.

* 6 Accidental release measures

- **Person-related safety precautions:**
Wear protective equipment. Keep unprotected persons away.
Avoid causing dust.
- **Measures for environmental protection:** Do not allow product to reach sewage system or water bodies.
- **Measures for cleaning/collecting:**
Collect mechanically.
Ensure adequate ventilation.
Dispose of contaminated material as waste according to item 13.

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Product name: Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)

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* 7 Handling and storage

- **Handling**
- **Information for safe handling:** No special measures required.
- **Information about protection against explosions and fires:** Protect from heat.
- **Storage**
- **Requirements to be met by storerooms and containers:** Store in cool location.
- **Information about storage in one common storage facility:** store away from solvents
- **Further information about storage conditions:**
 - Keep container tightly sealed.
 - Store under dry conditions.
 - Protect from humidity and keep away from water.
 - Protect from the effects of light.
- **Storage class** Not required.

* 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components 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 that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**
 - Keep away from foodstuffs, beverages and food.
 - Take off immediately all contaminated clothing
 - Wash hands during breaks and at the end of the work.
 - Avoid contact with the eyes and skin.
- **Breathing equipment:** Use breathing protection against the effects of fumes/dust/aerosol.
- **Recommended filter device for short term use:** Filter P2
- **Protection of hands:**
 - Only use chemical-protective gloves with CE-labelling of category III.
 - The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 - After use of gloves apply skin-cleaning agents and skin cosmetics.
- **Material of gloves**
 - Nitrile
 - Recommended thickness of the material: ≥ 0.11 mm
 - 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.
- **Penetration time of glove material**
 - Value for the permeation: Level ≥ 6 (480 min)
 - The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye protection:** Tightly sealed safety glasses.
- **Body protection:** Protective work clothing.

* 9 Physical and chemical properties:

- | | |
|---------------------------------------|----------------|
| · Form: | Powder |
| · Colour: | Light beige |
| · Odour: | Odourless |
| · Melting point/Melting range: | Not determined |
| · Boiling point/Boiling range: | 1461°C |
| · Flash point: | Not applicable |
| · Ignition temperature: | 250°C |

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Product name: Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)

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· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive.
· Density at 20°C	1.247 g/cm ³
· Solubility in / Miscibility with Water:	Soluble
· pH-value (41.2 g/l) at 20°C:	8.1
· Solvent content:	
Organic solvents:	0.0 %
· Solids content:	100.0 %

* 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:** To avoid thermal decomposition do not overheat.
- **Materials to be avoided:**
 - oxidizing agents
 - alkali metals
 - acids
- **Dangerous reactions** Contact with acids releases toxic gases
- **Dangerous products of decomposition:** see chapter 5

* 11 Toxicological information

- **Acute toxicity:** Quantitative data on the toxicity of the preparation are not available.

· LD/LC50 values that are relevant for classification:		
54-21-7 sodium salicylate		
Oral	LD50	930 mg/kg (rat)
	LDLo	700 mg/kg (human)
7647-14-5 sodium chloride		
Oral	LD50	3000 mg/kg (rat)
Dermal	LD50	> 10000 mg/kg (rabbit)
6106-24-7 di-sodium tartrate dihydrate		
Oral	LD50	1290 mg/kg (rat)
13755-38-9 sodium nitroprusside dihydrate		
Oral	LD50	99 mg/kg (rat)
	LDLo	20 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Strong irritant with the danger of severe eye injury.
- **Sensitization:** No sensitizing effect known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:

Harmful

Irritant

The following complies to cyanogen compounds / nitriles in general:

Utmost caution! Release of hydrocyanic acid is possible - blockade of cellular respiration.

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Product name: Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)

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The following applies to soluble iron compounds: nausea and vomiting after swallowing. The absorption of large quantities is followed by cardiovascular disorders. Toxic effect on liver and kidneys.

* 12 Ecological information:

- **Information about elimination (persistence and degradability):**
- **Other information:** Quantitative data on the ecological effect of this product are not available.

· Behaviour in environmental systems:

54-21-7 sodium salicylate

log P(o/w)	-1.43 (.)
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· Ecotoxicological effects:

· Aquatic toxicity:

54-21-7 sodium salicylate

Daphnia EC50	230 mg/l/24h (Daphnia magna)
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LC50	90 mg/l/48h (Leuciscus idus)
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7647-14-5 sodium chloride

EC50	1000 mg/l/48h (Daphnia magna)
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LC50	7650 mg/l/96h (Pimephales promelas)
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13755-38-9 sodium nitroprusside dihydrate

Daphnia EC50	1.0 mg/l/24h (Daphnia magna)
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LC50	0.08 mg/l (fish)
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· Remark:

Toxic for fish:

CAS 13755-38-9 (Fe): > 0,9 mg/l / pH 6,5-7,5

MERCK: the following applies to dissolved iron compounds in general:

fish: toxic as from 0.9 mg/l at pH 6.5 - 7.5

lethal as from 1 mg/l at pH 5.5 - 6.7

· General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

Do not allow product to reach ground water, water bodies or sewage system.

* 13 Disposal considerations

· Product:

· Recommendation

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

Hand over to disposers of hazardous waste.

· European waste catalogue

16 05 06	laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals
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· Uncleaned packagings:

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleaning agent:** Water, if necessary with cleaning agent.

* 14 Transport information

· Land transport ADR/RID (cross-border)

· **ADR/RID-GGVS/E Class:** -

· Maritime transport IMDG:

· **IMDG Class:** -

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Product name: Ammonia Nitrogen Set (Vario Ammonia Salicylate F10)

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· Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:
· ICAO/IATA Class: -

· Transport/Additional information: Not dangerous according to the above specifications.

* 15 Regulatory information

· Designation according to EC guidelines:

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

· Code letter and hazard designation of product:

Xn Harmful

· Hazard-determining components of labelling:

sodium salicylate

· Risk phrases:

22 Harmful if swallowed.

36 Irritating to eyes.

· Safety phrases:

22 Do not breathe dust.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36 Wear suitable protective clothing.

60 This material and its container must be disposed of as hazardous waste.

* 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 R-phrases

22 Harmful if swallowed.

25 Toxic if swallowed.

36 Irritating to eyes.

· Department issuing data specification sheet: Department TSS, Dr. Manfred Kaul**· Data compared to the previous version altered.**

— GB —