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

### **1.1 Product identifier**

Trade name : OF011-K21 Fauch 400

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

Use of the Sub-  
stance/Mixture : Cleaner for oil-claimant boiler systems

### **1.3 Details of the supplier of the safety data sheet**

Company : hebro chemie- ZN der Rockwood Specialties Group  
GmbH  
Rostocker Str. 40  
41199 Mönchengladbach

Contact person : Wolfgang Schaffers  
Telephone : +49 (0) 2166 6009-0  
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Contact person product safety : Abteilung Produktsicherheit  
Telephone : +49(0)2166 6009-176  
E-mail address : wolfgang.schaffers@chemetall.com

### **1.4 Emergency telephone number**

: Giftinformationszentrum Erfurt:  
+49 (0) 361 730 730

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## **SECTION 2: Hazards identification**

### **2.1 Classification of the substance or mixture**

#### **Classification (REGULATION (EC) No 1272/2008)**

Serious eye damage, Category 1 H318: Causes serious eye damage.

### **2.2 Label elements**

#### **Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms :



Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements : **Prevention:**  
P280 Wear eye protection/ face protection.

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**Response:**

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

Hazardous components which must be listed on the label:  
ammonium carbamate

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The information required is contained in this Material Safety Data Sheet.

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**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

Chemical nature : Preparation based on inorganic salts and tensides

**Hazardous components**

Chemical name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (% w/w)
Ammonium hydrogencarbonate	1066-33-7 213-911-5 01-2119486970-26	Acute Tox. 4; H302	>= 2.5 - < 10
ammonium carbamate	1111-78-0 214-185-2 01-2119493982-22	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 5 - < 10
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	68891-38-3 500-234-8 01-2119488639-16	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	>= 3 - < 5
Alkyl alcohol ethoxylate	26183-52-8 500-046-6	Eye Dam. 1; H318	>= 1 - < 2.5

For explanation of abbreviations see section 16.

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- If inhaled : No information available.
- In case of skin contact : After contact with skin, wash immediately with plenty of water. Take off contaminated clothing and shoes immediately. If symptoms persist, call a physician.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical treatment when symptoms develop due to con-

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tact with eyes.  
If eye irritation persists, consult a specialist.

If swallowed : Call a physician immediately.  
Keep patient warm and at rest.  
Immediately give large quantities of water to drink.  
Prevent vomiting if possible.

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

Risks : Causes skin irritation.  
Causes serious eye damage.

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

Treatment : Treat symptomatically.

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### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Combustion may cause:  
Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide

#### **5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Prevent fire extinguishing water from contaminating surface water or the ground water system.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### **SECTION 6: Accidental release measures**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Handle in accordance with good industrial hygiene and safety practice.

#### **6.2 Environmental precautions**

Environmental precautions : Inform the relevant authorities if it enters sewers, aquatic environment or soil.

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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).  
Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

See chapter  
8  
and  
13

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.  
Ensure adequate ventilation.  
When using do not eat, drink or smoke.  
For personal protection see section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Follow the water regulations. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep only in the original container at temperature not exceeding 50°C.

Further information on storage conditions : Keep away from heat. Keep away from food, drink and animal feedingstuffs. Keep at temperatures between 5°C and 45°C.

### 7.3 Specific end use(s)

Specific use(s) : Cleaner for oil-claimant boiler systems

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

#### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Ammonium hydrogen-carbonate	Workers	Inhalation	Long-term systemic effects	62.5 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	62.5 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	160.7 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	160.7 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	57 mg/kg bw/day

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ammonium carbamate	Workers	Inhalation	Long-term systemic effects	49.8 mg/m <sup>3</sup>
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Workers	Inhalation	Long-term systemic effects	175 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	2750 mg/kg bw/day

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance name	Environmental Compartment	Value
Ammonium hydrogencarbonate	Fresh water	0.37 mg/l
	Marine water	0.037 mg/l
	Sewage treatment plant	1347 mg/l
	Fresh water sediment	0.1332 mg/kg dry weight (d.w.)
	Marine sediment	0.01332 mg/kg dry weight (d.w.)
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	Soil	74.9 mg/kg dry weight (d.w.)
	Fresh water	0.24 mg/l
	Marine water	0.024 mg/l
	Sewage treatment plant	10000 mg/l
	Fresh water sediment	5.45 mg/kg dry weight (d.w.)
	Marine sediment	0.545 mg/kg dry weight (d.w.)
	Soil	0.946 mg/kg dry weight (d.w.)

**8.2 Exposure controls**

**Personal protective equipment**

Eye protection : Face-shield  
 Safety glasses with side-shields conforming to EN166

Hand protection  
 Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.

Remarks : The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. The exact break through time can be obtained from the protective glove producer and this has to be observed.

Skin and body protection : Long sleeved clothing

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.

Protective measures : Follow the skin protection plan.

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## **SECTION 9: Physical and chemical properties**

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

Appearance	: liquid
Colour	: blue
Odour	: amine-like
Odour Threshold	: No data available
pH	: 9 (20 °C) (undiluted)
Melting point/freezing point	: No data available
Boiling point/boiling range	: > 100 °C
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: ca. 23 hPa (20 °C)
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1.07 g/cm <sup>3</sup> (20 °C) Method: DIN 51757
Solubility(ies)	
Water solubility	: 1,000 g/l completely soluble
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available

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Explosive properties : No data available

Oxidizing properties : No data available

## 9.2 Other information

Other physico-chemical properties: This information is not available/not determined.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

The product is chemically stable.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : No decomposition if used as directed.

### 10.5 Incompatible materials

Materials to avoid : None known.

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

In case of fire hazardous decomposition products may be produced such as:

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide

Smoke

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### Acute toxicity

##### Components:

##### **Ammonium hydrogencarbonate:**

Acute oral toxicity : LD50 (Rat): 1,576 mg/kg

##### **ammonium carbamate:**

Acute oral toxicity : LD50 (Rat): 681 - 1,470 mg/kg

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts:**

Acute oral toxicity : LD50 (Rat, female): > 2,000 mg/kg

Acute dermal toxicity : LD50 (Rat, female): 4,100 mg/kg

**Skin corrosion/irritation**

**Product:**

Remarks: Causes skin irritation.

**Serious eye damage/eye irritation**

**Product:**

Remarks: Causes serious eye damage.

**Respiratory or skin sensitisation**

**Product:**

Remarks: No sensitising effects are known.

**Germ cell mutagenicity**

**Product:**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

**Product:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

**Reproductive toxicity**

**Product:**

Based on available data, the classification criteria are not met.

**STOT - single exposure**

**Product:**

Based on available data, the classification criteria are not met.

**STOT - repeated exposure**

**Product:**

Based on available data, the classification criteria are not met.

**Aspiration toxicity**

**Product:**

Based on available data, the classification criteria are not met.



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### Further information

**Product:**

Remarks: Health injuries are not known or expected under normal use.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Ecotoxicology studies for the product are not available.

**Components:**

**Ammonium hydrogencarbonate:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 63.4 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 145.6 mg/l  
aquatic invertebrates Exposure time: 48 h  
Test Type: static test

Toxicity to microorganisms : EC10 (Pseudomonas putida): 1,347 mg/l  
Exposure time: 16 h

**ammonium carbamate:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 37 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other : (Daphnia magna (Water flea)): 63.7 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae : IC50 (Desmodesmus subspicatus (green algae)): 129.1 mg/l  
Exposure time: 72 h

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts:**

Toxicity to fish : LC50 (Fish): 7.1 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

NOEC (Fish): 1 mg/l  
Exposure time: 45 d  
Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 7.4 mg/l  
aquatic invertebrates Exposure time: 48 h  
Method: OECD Test Guideline 202

NOEC (Daphnia (water flea)): 1.2 mg/l  
Exposure time: 21 d

Toxicity to algae : ErC50 (Algae): 27.7 mg/l  
Exposure time: 72 h

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Method: OECD Test Guideline 201

NOEC (Algae): 0.95 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: No data available

### Components:

#### **Alcohols, C12-14, ethoxylated, sulfates, sodium salts:**

Biodegradability : Biodegradation: 100 %  
Exposure time: 28 d  
Remarks: Readily biodegradable

Remarks: This surfactant complies 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 request or at the request of a detergent manufacturer.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: No data available

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: No data available

## 12.5 Results of PBT and vPvB assessment

### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

## 12.6 Other adverse effects

### Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

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- H318 : Causes serious eye damage.  
H412 : Harmful to aquatic life with long lasting effects.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity  
Aquatic Chronic : Chronic aquatic toxicity  
Eye Dam. : Serious eye damage  
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

- Other information : The information provided is based on our current knowledge and experience and apply to the product as delivered. Regarding the product properties, these are not guaranteed. The delivery of this safety datasheet does not free the recipient of the product from his own responsibility to follow the relevant rules and regulations concerning this product.  
This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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