

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

hebrochemie



Impulse für Mensch und Umwelt

## FW167-K01 Pro-Tec B 361

Version: 1.9

Revision Date 29.06.2015

Print Date 29.06.2015

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

#### 1.1 Product identifier

Trade name : FW167-K01 Pro-Tec B 361

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

Use of the Sub-  
stance/Mixture : Biocidal product

#### 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  
Telefax : +49 (0) 2166 6009-99

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

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Acute aquatic toxicity, Category 1	H400: Very toxic to aquatic life.

#### 2.2 Label elements

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

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Hazard pictograms



Signal word

: Warning

Hazard statements

: H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.

Precautionary statements

: **Prevention:**  
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.  
P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.  
P280 Wear protective gloves.  
**Response:**  
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

- 25254-50-6 alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol

### 2.3 Other hazards

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable

### 3.2 Mixtures

Chemical nature : Preparation based on bactericides and fungicides

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
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alpha,alpha',alpha''-trimethyl- 1,3,5-triazine- 1,3,5(2H,4H,6H)-triethanol	25254-50-6 246-764-0	Acute Tox. 4; H332  Acute Tox. 4; H302  Eye Irrit. 2; H319  Skin Irrit. 2; H315  Skin Sens. 1; H317	>= 10 - < 20
Pyridine-2-thiol 1-oxide, sodi- um salt	3811-73-2 223-296-5	Aquatic Acute 1; H400  Acute Tox. 4; H332  Acute Tox. 4; H312  Acute Tox. 4; H302  Eye Irrit. 2; H319  Skin Irrit. 2; H315	>= 1 - < 2.5

For the full text of the H-Statements mentioned in this Section, see Section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Remove/Take off immediately all contaminated clothing.  
Call a physician if symptoms occur.
- If inhaled : Provide fresh air.  
If symptoms persist, call a physician.
- In case of skin contact : After contact with skin, wash immediately with plenty of soap  
and water.  
Remove contaminated clothing and shoes.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,  
for at least 15 minutes.  
Call a physician immediately.
- If swallowed : Call a physician immediately.  
Keep at rest.  
Clean mouth with water and drink afterwards plenty of water.

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Prevent vomiting if possible.

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

Symptoms : Erythema

Risks : Health injuries may be delayed.

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

Treatment : Treat symptomatically.  
For specialist advice physicians should contact the Poisons Information Service.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media : Not applicable.

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

Specific hazards during fire-fighting : Hazardous decomposition products formed under fire conditions.  
sulphur dioxide (toxic).  
Nitrogen oxides (NOx)  
formaldehyde

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

## 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.  
Refer to protective measures listed in sections 7 and 8.

### 6.2 Environmental precautions

Environmental precautions : Do not empty into drains.

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

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

Methods for cleaning up : Contaminated surfaces will be extremely slippery. 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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours or spray mist. Avoid contact with skin and eyes. Wash hands before breaks and at the end of workday.

Advice on protection against fire and explosion : No special protective measures against fire required.

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

Requirements for storage areas and containers : Do not use containers made of light metals. Do not use copper or copper alloy containers. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Protect from frost.

Advice on common storage : No materials to be especially mentioned.

### 7.3 Specific end use(s)

Specific use(s) : Biocide

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

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### Engineering measures

Handle in accordance with good industrial hygiene and safety practice.

### Personal protective equipment

Respiratory protection : When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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

Eye protection : Safety glasses with side-shields

Skin and body protection : Long sleeved clothing

Protective measures : Follow the skin protection plan.

### Environmental exposure controls

General advice : Do not empty into drains.  
Inform the relevant authorities if it enters sewers, aquatic environment or soil.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless

Odour : typical

Flash point : Not applicable

pH : 11.0  
at  
20 °C  
(undiluted)

Vapour pressure : 23 hPa  
at 20 °C  
Information taken from reference works and the literature.

Density : 1.03 g/cm<sup>3</sup>  
at 20 °C  
Method: DIN 51757

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Water solubility : completely miscible

### 9.2 Other information

Explosivity : no explosion risk

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No hazards to be specially mentioned.

### 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 : Protect from frost, heat and sunlight.  
Product is stable under appropriate usage.

### 10.5 Incompatible materials

Materials to avoid : reaction with reduction materials.  
reaction with oxidizers.

### 10.6 Hazardous decomposition products

Risk of decomposition. : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

Acute oral toxicity  
alpha,alpha',alpha''-trimethyl-  
1,3,5-triazine- : LD50: 803 - 1,151 mg/kg  
Species: Rat

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1,3,5(2H,4H,6H)-triethanol Method: OECD Test Guideline 401

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
vapour  
Exposure time: 4 h  
Method: Calculation method

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

Acute dermal toxicity  
alpha,alpha',alpha''-trimethyl- : LD50: > 2,000 mg/kg  
1,3,5-triazine- Species: Rat  
1,3,5(2H,4H,6H)-triethanol Method: OECD Test Guideline 402

### Skin corrosion/irritation

Skin irritation : Causes skin irritation.

### Serious eye damage/eye irritation

Eye irritation : Causes serious eye irritation.

Eye irritation  
alpha,alpha',alpha''-trimethyl- : Species: Rabbit  
1,3,5-triazine- Method: OECD Test Guideline 405  
1,3,5(2H,4H,6H)-triethanol Irritating to eyes.

### Respiratory or skin sensitisation

Sensitisation : May cause an allergic skin reaction.

### Germ cell mutagenicity

alpha,alpha',alpha''-trimethyl- : Ames test  
1,3,5-triazine- Method: OECD Test Guideline 471  
1,3,5(2H,4H,6H)-triethanol In vitro tests did not show mutagenic effects

### Genotoxicity in vivo

alpha,alpha',alpha''-trimethyl- : Species: Mouse Result: In vivo tests did not show mutagenic  
1,3,5-triazine- effects  
1,3,5(2H,4H,6H)-triethanol Method: OECD Test Guideline 475

### Carcinogenicity



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Remarks : Not classifiable as a human carcinogen.

### Target Organ Systemic Toxicant - Repeated exposure

alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol : Species: Rat  
Application Route: Oral  
Exposure time: (90 d)  
NOAEL: 40 mg/kg  
Test substance: Read-across (Analogy)  
Method: OECD Test Guideline 408

### Toxicology Assessment

Repeated dose toxicity : Prolonged skin contact may cause skin irritation.

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

## SECTION 12: Ecological information

### 12.1 Toxicity

Ecotoxicology studies for the product are not available.

#### Toxicity to fish

alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol : semi-static test LC50: > 100 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 203

semi-static test NOEC: > 100 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)  
Method: OECD Test Guideline 203

Pyridine-2-thiol 1-oxide, sodium salt : LC50: 0.0066 mg/l  
Exposure time: 96 h  
Species: Oncorhynchus mykiss (rainbow trout)

#### Toxicity to daphnia and other aquatic invertebrates

alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol : static test EC50: 29 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

static test NOEC: 11 mg/l  
Exposure time: 48 h  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 202

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Pyridine-2-thiol 1-oxide, sodium salt : EC50: 0.022 mg/l  
Exposure time: 48 h  
Species: Daphnia (water flea)

Toxicity to algae  
alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol : EC0: 3.9 mg/l  
Exposure time: 72 h  
Species: Algae  
Analytical monitoring: yes  
Method: OECD Test Guideline 201

Pyridine-2-thiol 1-oxide, sodium salt : EC50: 0.46 mg/l  
Exposure time: 72 h  
Species: Selenastrum capricornutum (fresh water algae)

Toxicity to bacteria  
alpha,alpha',alpha''-trimethyl-1,3,5-triazine-1,3,5(2H,4H,6H)-triethanol : EC50: 25.31 - 33.52 mg/l  
Species: Bacteria  
Analytical monitoring: yes  
Method: OECD Test Guideline 209

### 12.2 Persistence and degradability

Biodegradability : No data available

### 12.3 Bioaccumulative potential

Bioaccumulation : No data available

### 12.4 Mobility in soil

Mobility : No data available

### 12.5 Results of PBT and vPvB 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

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

- Product : Do not let product enter drains.  
Do not dispose of with domestic refuse.  
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Packaging : Do not dispose of with domestic refuse.  
The hazard and precautionary statements displayed on the label also apply to any residues left in the container.
- Contaminated packaging : Dispose of in accordance with local regulations.
- Waste Code : 070401 aqueous washing liquids and mother liquors

### SECTION 14: Transport information

#### ADR

- UN number : 3082  
UN proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Pyridine-2-thiol 1-oxide, sodium salt
- Transport hazard class(es) : 9  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Limited Quantity (LQ) Inner : 5.00 L  
Packaging  
Maximum quantity : 30.00 KG  
Labels : 9  
Tunnel restriction code : (E)  
Environmentally hazardous : yes

#### IATA

- UN number : 3082  
Description of the goods : Environmentally hazardous substance, liquid, n.o.s. Pyridine-2-thiol 1-oxide, sodium salt
- Class : 9  
Packing group : III  
Labels : 9

#### IATA\_C

- Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964

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Maximum quantity : 450.00 L  
Environmentally hazardous : yes

### IATA\_P

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Maximum quantity : 450.00 L  
Environmentally hazardous : yes

### IMDG

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Pyridine-2-thiol 1-oxide, sodium salt  
Class : 9  
Packing group : III  
Labels : 9  
EmS Number 1 : F-A  
EmS Number 2 : S-F  
Limited Quantity (LQ) Inner : 5.00 L  
Packaging :  
Marine pollutant : yes  
"IMDG-Code segregation group not applicable".  
"IMDG-Code segregation group not applicable".

### RID

UN number : 3082  
Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. Pyridine-2-thiol 1-oxide, sodium salt  
Transport hazard class(es) : 9  
Packing group : III  
Classification Code : M6  
Hazard Identification Number : 90  
Labels : 9  
Limited Quantity (LQ) Inner : 5.00 L  
Packaging :  
Maximum quantity : 30.00 KG  
Environmentally hazardous : yes

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Water contaminating class : WGK 2 water endangering

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Other regulations

: The product is classified and labelled in accordance with EC directives or respective national laws.  
Regional or national implementations of GHS may not implement all hazard classes and categories.

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

### SECTION 16: Other information

#### Full text of H-Statements referred to under sections 2 and 3.

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.
H332	Harmful if inhaled.
H400	Very toxic to aquatic life.

#### Further 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.