

version : 1.3  
 Reviewed on : 10.07.2014  
 Replaces the version of : 26.10.2011  
 Date of Print : 28.04.2015  
 Product : Ranitidine Hydrochlorid

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## 1. Identification of the substance/mixture and of the company/undertaking

Designation : **Ranitidine Hydrochlorid**

Synonyms : AH 19065

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 55216 Ingelheim am Rhein

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 Outside USA and Canada : **+1 723-527-3887**  
**CHEMTREC – 24 Hours**

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## 2. Hazards Identification

### Classification according to Regulation (EC) No. 1272/2008:

Acute toxicity, Category 4, Oral  
 Skin sensitisation, Category 1,

### Classification (67/548/EWG,1999/45/EG):

R22 Also harmful if swallowed.  
 R43 May cause sensitisation by skin contact.

### Labelling according Regulation (EC) No 1272/2008 [CLP]:

Pictogram(s)



Warning

Hazard Statement(s):	H302 H317	Harmful if swallowed. May cause an allergic skin reaction.
Safety precaution(s):	P261 P272 P280	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/ protective clothing/ eye protection/ face protection.

version : 1.3  
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 Replaces the version of : 26.10.2011  
 Date of Print : 28.04.2015  
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P330 Rinse mouth.  
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
 P333 + P313 If skin irritation or rash occurs: Get medical advice/  
 attention.  
 P301 + P310 IF SWALLOWED: Immediately call a POISON  
 CENTER or doctor/ physician.  
 P501 Dispose of contents/ container to an approved  
 waste disposal plant.

### Labelling according to EEC Directive (67/548/EWG,1999/45/EG):

Symbol(s) : **Xn**  
  
 Harmful

R phrase(s) : R22 Also harmful if swallowed.  
 R43 May cause sensitisation by skin contact.

S phrase(s) : S22 Do not breathe dust.  
 S36/39 Wear suitable protective clothing and eye/face  
 protection.

### 3. Composition/Information on Ingredients

#### Hazardous ingredients

Chemical name	Classification	GHS classification	Concentration
N-[2-[[5- [(Dimethylamino)methyl]furfuryl] thio]ethyl]-n'-methyl-2- nitrovinylidenediamine hydrochloride	Xn; R22, R43	Category 4, H302 Category 1, H317	100 %
Molecular formula:	C13-H22-N4-O3-S x HCl	CAS-No.	66357-59-3
Molecular weight:	350,9	EC-No.:	266-333-0

### 4. First-aid Measures

General advice : Remove from exposure, lie down. Immediately remove  
 contaminated clothing. If danger of loss of consciousness,  
 place patient in recovery position and transport accordingly.  
 Apply artificial respiration if necessary. First aid personnel  
 should pay attention to their own safety.

Eye contact : Immediately wash affected eyes for at least 15 minutes under  
 running water with eyelids held open, consult an eye specialist.

version : 1.3  
 Reviewed on : 10.07.2014  
 Replaces the version of : 26.10.2011  
 Date of Print : 28.04.2015  
 Product : Ranitidine Hydrochlorid

---

Skin contact : Immediately wash thoroughly with plenty of water, apply sterile dressings, consult a skin specialist.  
 Inhalation : Keep patient calm, remove to fresh air, seek medical attention.  
 Ingestion : Rinse mouth immediately and then drink plenty of water, seek medical attention.

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### 5. Fire-fighting Measures

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment., Water, Foam, carbon dioxide, Dry chemical  
 Hazards during fire-fighting : In case of fire and/or explosion do not breathe fumes. Can be released in case of fire:, Carbon oxides, hydrogen chloride, Sulphur oxides, nitrogen oxides  
 Protective equipment for fire-fighting : Wear self-contained breathing apparatus and chemical-protective clothing.  
 Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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### 6. Accidental Release Measures

Personal precautions : Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation.  
 Environmental precautions : Do not discharge into drains/surface waters/groundwater.  
 Methods for cleaning-up or taking-up : Cleaning operations should be carried out only while wearing breathing apparatus. For large amounts: Dampen, pick up mechanically and dispose of. Avoid raising dust. For residues: Use approved industrial vacuum cleaner for removal. Pack in tightly closed containers for disposal.  
 Additional information : Damp down dust with water spray jet.

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### 7. Handling and Storage

#### Handling

Advice on safe handling : Ensure thorough ventilation of stores and work areas. Breathing must be protected when large quantities are decanted without local exhaust ventilation. Do not open until use.  
 Hints for protection against fire and explosion : Keep away from heat and sources of ignition. Take precautionary measures against static discharges. Avoid creating dust.  
 Hygienic measures : General industrial hygiene practice. Wash hands and face before breaks and immediately after handling the product. Keep working clothes separately.

#### Storage

Requirements for storage rooms and vessels : Protect from heat and direct sunlight. Keep container tightly closed. Jointless smooth floor

version : 1.3  
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 Replaces the version of : 26.10.2011  
 Date of Print : 28.04.2015  
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Advice on storage : Keep away from food, drink and animal feedingstuffs. Advice  
 compatibility : on Segregation  
 Storage class according to : 11 Combustible Solids  
 VCI

## 8. Exposure controls/personal protections

### Control parameters

Components	Basis	Factor	BIEL-Group	Values	Remark
N-[2-[[5- [(Dimethylamino)methyl]fur furyl]thio]ethyl]-n'-methyl-2- nitrovinylidenediamine hydrochloride 66357-59-3					
N-[2-[[5- [(Dimethylamino)methyl]fur furyl]thio]ethyl]-n'-methyl-2- nitrovinylidenediamine hydrochloride 66357-59-3	BIEL		2	279 µg/m3 1.116 µg/m3 (BI-STEL 15 min, ) 558 µg/m3 (BI-STEL 60 min, ) BIPC: 1a	
BIEL = Boehringer Ingelheim Exposure Limit BI-STEL = Boehringer Ingelheim Short-Term Exposure Limit (Excursion limit) BIPC = Boehringer Ingelheim Pregnancy Category Factor = Ceiling limit/Exceeding factor					

### Exposure controls

Advice on system design : Use with local exhaust ventilation.

### Personal protective equipment

Respiratory protection : Use breathing apparatus if exposed to vapours/dust/aerosol.  
 half mask (EN 140) particle filter P2 (EN 143)  
 Hand protection : Chemical safety glove category III (EN 374). Glove material:  
 Nitrile rubber, Layer thickness: 0.43 mm. Resistance  
 (permeability): Level 6 (480 min).  
 Eye protection : Safety glasses with side-shields (frame goggles) (EN 166)  
 Body protection : chemical protection overall if dust is formed.  
 Additional information : Only use protective equipment in accordance with  
 national/international regulations. Follow the national  
 regulations about wearing personal protective equipment and  
 the warranty given by the manufacturer for the safe function.  
 General protective : Handle in accordance with good industrial hygiene and safety  
 measures practice. Do not breathe dust. Avoid contact with skin, eyes  
 and clothing.

## 9. Physical and Chemical Properties

version : 1.3  
Reviewed on : 10.07.2014  
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Product : Ranitidine Hydrochlorid

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Form : powder crystalline  
Colour : white  
Odour : No data available.  
Odour threshold : No data available.  
pH value : No data available.  
Melting point/ -range : 133 - 134 °C  
Boiling point/boiling range : No data available.  
Flash point : not applicable  
Ignition temperature : No data available.  
Evaporation rate : No data available.  
Flammability : No data available.  
Lower explosion limit : No data available.  
Upper explosion limit : No data available.  
Vapour pressure : No data available.  
Relative vapour density : No data available.  
Relative density : No data available.  
Solubility in water : soluble  
Partitioning coefficient n-octanol/water (log Pow) : No data available.  
Thermal decomposition : No data available.  
Viscosity, dynamic : not applicable  
Explosiveness : No data available.  
Peroxides : No data available.

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#### 10. Stability and Reactivity

Conditions to avoid : No data available.  
Substances to avoid : Oxidizing agents, Water

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#### 11. Toxicological Information

Acute oral toxicity : LD50 = 4.190 mg/kg rat  
LD50 = 1.100 mg/kg mouse  
Acute inhalation toxicity : No data available.  
Acute dermal toxicity : No data available.  
Skin irritation : No data available.

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---

Eye irritation : No data available.  
Sensitization : Sensitising  
May cause an allergic skin reaction.  
Genetic toxicity in vitro : Ames-test  
Result: negative  
Genetic toxicity in vivo : No data available.  
Carcinogenicity : No data available.  
Reproductive toxicity : No data available.  
Teratogenicity : No data available.

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## 12. Ecological information

### Ecotoxicity

Toxicity to fish : No data available.  
Toxicity to daphnia : No data available.  
Toxicity to algae : No data available.  
Chronic toxicity to aquatic invertebrates : No data available.  
Further information : At present there are no ecotoxicological assessments. Do not flush into surface water or sanitary sewer system.

### Persistence and degradability

Biological degradation : No data available.  
Transport between environmental compartments : No data available.  
Bioaccumulation : No data available.  
PBT and vPvB assessment : No data available.

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## 13. Disposal Considerations

Product : Dispose of in accordance with local regulations.  
Contaminated packaging : Packs that cannot be cleaned should be disposed of in the same manner as the contents. Uncontaminated packaging can be recycled.

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Date of Print : 28.04.2015  
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#### 14. Transport Information

**Further information** : Not classified as hazardous under transport regulations. For the internal transport: Use only released containers. Use only tightly closed containers. The container must be correctly labelled. Protect container against fall down.

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#### 15. Regulatory information

**National legislation/regulations**

Water hazard class : VVWWS  
WGK 3 highly water endangering  
Annex 3 VwVwS (Germany) dated Mai, 17th 1999

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#### 16. Other particulars

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3.

H302 Harmful if swallowed.  
H317 May cause an allergic skin reaction.

R22 Also harmful if swallowed.  
R43 May cause sensitisation by skin contact.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.