



Trade name: Metronidazolium

Substance number: 065662

Version: 1 / CH

Date revised: 19.01.12

Replaces Version: - / CH

Date of printing: 14.08.12

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

1.1. Product identifier

Metronidazolium

Item-No.

06566200

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

Use of the substance/preparation

Active pharmaceutical substance

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no.

0041 (0)71 353 58 58

E-mail address of

sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

2. Hazards identification

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Carc. 2

H351

Classification in accordance with EC directives

Classification

Xn, R40

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal Word

Warning

Hazard statements

H351

Suspected of causing cancer.

Precautionary statements

P202

Do not handle until all safety precautions have been read and understood.

P281

Use personal protective equipment as required.

P308+P313

IF exposed or concerned: Get medical advice/attention.

P405

Store locked up.

Labelling in accordance with EC directives 1999/45/EC and 67/548/EEC



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The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

Hazard symbols

Harmful

R phrases

40 Limited evidence of a carcinogenic effect.

S phrases36/37 Wear suitable protective clothing and gloves.
46 If swallowed, seek medical advice immediately and show this container or label.**3. Composition/information on ingredients****Substance / product identification**CAS-Nr. 443-48-1
EINECS-Nr. 207-136-1**Hazardous ingredients****Metronidazole**CAS No. 443-48-1
EINECS no. 207-136-1
Concentration 99 - 101 %
Classification Carc.Cat.3, R40**4. First aid measures****4.1. Description of first aid measures****General information**

Take affected person to fresh air. If the patient is likely to become unconscious, place and transport in stable sideways position. Seek medical advice immediately. If you feel unwell, seek medical advice (show the label where possible). In any case show the physician the Safety Data Sheet.

After inhalation

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

After skin contact

Remove contaminated, soaked clothing immediately and dispose of safely. Wash off immediately with soap and water. Summon a doctor immediately.

After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Summon a doctor immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Summon a doctor immediately.

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

amentia, Headache, Dizziness, Vomiting, Irritation of mucosa, Diarrhoea, Absence of appetite, CNS depression

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



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Hints for the physician / treatment

Treat symptomatically. If necessary, give oxygen

5. Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Water spray jet, Carbon dioxide, Foam, Dry powder

5.2. Special hazards arising from the substance or mixtureIn the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂); Nitrous gases (NO_x)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Use self-contained breathing apparatus.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Refer to protective measures listed in sections 7 and 8. Avoid dust formation. Respiratory protection

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

To pick up dry. When picked up, treat material as prescribed under heading "Disposal". Clean up affected area.

6.4. Reference to other sections

Information regarding Waste Disposal, see chapter 13. Refer to protective measures listed in sections 7 and 8.

7. Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

Do not inhale dust. Avoid contact with skin, eyes and clothing. Avoid longer or repeated exposition. Ensure adequate ventilation. Take precautionary measures against electrostatic loading.

7.2. Conditions for safe storage, including any incompatibilities**Hints on storage assembly**

Do not store with oxidizing agents.

Further information on storage conditions

Keep only in the original container, tightly closed, in a well ventilated place. Protect from exposure to air/oxygen (peroxide formation). Protect from heat. Protect from light.

7.3. Specific end use(s)

Active pharmaceutical substance

8. Exposure controls/personal protection**8.2. Exposure controls**



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General protective and hygiene measures

Observe the usual precautions when handling chemicals. Hold eye wash fountain available. Wash hands before breaks and after work. Do not eat, drink or smoke during work time. Store work clothing separately.

Respiratory protection

Dust mask; Particle filter P2

Hand protection

Protective gloves

Eye protection

Safety glasses; Face shield

Body protection

Protective clothing; Boots

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Form	Crystalline powder			
Colour	milky white to yellowish			
Odour	odourless			
pH				
Value	5.8			
Remarks	Saturated solution			
Melting point				
Value	159	to	163	°C
Boiling point				
Value	405.5			°C
Pressure	1013	hPa		
Flash point				
Value	256.4	to	263.6	°C
Density				
Value	1.45			g/cm ³
Temperature	20	°C		
Solubility in water				
Remarks	easily soluble			
Solubility in other solvents				
Acetone				
Remarks	easily soluble			
nonomolecular alcohols				
Remarks	easily soluble			
Dichloromethane				
Remarks	easily soluble			
Octanol/water partition coefficient (log Pow)				
log Pow	-	0.05		

9.2. Other information**Other information**

Forms explosive mixture with air are possible.



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10. Stability and reactivity

10.4. Conditions to avoid

Keep away from sources of heat and ignition. Protect from light.

10.5. Incompatible materials

Strong oxidising agents

10.6. Hazardous decomposition products

In the event of fire the following can be released: Toxic gases/vapours

11. Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

Species	rat		
LD50		3000	mg/kg
Species	mouse		
LD50		3800	mg/kg

Skin corrosion/irritation

Remarks	Danger of resorption through the skin.
Remarks	Irritating to skin.

Serious eye damage/irritation

Remarks	Irritates the eyes.
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Sensitization

Remarks	Inhalation may lead to the formation of oedemas in the respiratory tract.
Remarks	Harmful by inhalation.

Subacute, subchronic, chronic toxicity

LD50			
Route of exposure	subcutaneous		
Species	mouse		
Dose		3640	mg/kg

Mutagenicity

valuation	Experimental information on genotoxicity available.
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Reproduction toxicity

valuation	Can cause malformations.
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Carcinogenicity

method	EPA
Remarks	May cause cancer.
Source	IARC

Experience in practice

May lead to nausea, headache, drowsiness and dizziness. vomiting. diarrhea. May cause sensitization by inhalation and skin contact. Irritation. Target organs: nerves

12. Ecological information

12.1. Toxicity

Fish toxicity

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)		
LC50	> 100		mg/l



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Duration of exposure	96	h	
Remarks	No data available.		
Species	zebra fish (Brachydanio rerio)		
NOEC	500		mg/l
Duration of exposure	96	h	

Daphnia toxicity

Species	Daphnia magna		
EC50	> 1000		mg/l
Duration of exposure	48	h	
Remarks	No data available.		

12.3. Bioaccumulative potential**Octanol/water partition coefficient (log Pow)**

log Pow - 0.05

13. Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code Should not be released into the sanitary sewer system.
Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

14. Transport information**Land transport ADR/RID**

Non-dangerous goods

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

15. Regulatory information**16. Other information****R-phrases listed in chapter 3**

40 Limited evidence of a carcinogenic effect.

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.