

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

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

### **1.1. Product identifier**

Nitrofurantoin

Item No. 06672704

### **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/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 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

## **SECTION 2: Hazards identification**

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

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

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

Acute Tox. 4 H302

Resp. Sens. 1 H334

Skin Sens. 1 H317

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements**

H302

Harmful if swallowed.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317

May cause an allergic skin reaction.

##### **Precautionary statements**

P261

Avoid breathing dust/fume/gas/mist/vapours/spray.

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P284 [In case of inadequate ventilation] wear respiratory protection.  
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
 P501.3 Disposal in compliance with local and national regulations.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains Nitrofurantoin

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

Value	238.2	g/mol
-------	-------	-------

**Hazardous ingredients****Nitrofurantoin**

CAS No.	67-20-9		
EINECS no.	200-646-5		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Acute Tox. 4		H302
	Resp. Sens. 1		H334
	Skin Sens. 1		H317

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**After inhalation**

Remove to fresh air, keep patient warm and at rest. 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 and rinse well. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). By continuous complaints consult a physician.

**After ingestion**

Rinse mouth thoroughly with water. Do not induce vomiting. In the event of symptoms take medical treatment.

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

Asthmatic complaints, Allergic symptoms

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

Foam, Dry powder, Carbon dioxide, Water spray jet, Sand

**Non suitable extinguishing media**

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

Full water jet

**5.2. Special hazards arising from the substance or mixture**In the event of fire the following can be released: Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>)**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Wear protective clothing. Use self-contained breathing apparatus.

**Other information**

Cool endangered containers with water spray jet. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

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

Avoid dust formation. Keep away unprotected persons. Wear protective equipment. Ensure adequate ventilation.

**6.2. Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Advise water authority if spillage has entered water course or drainage system.

**6.3. Methods and material for containment and cleaning up**

Avoid raising dust. Take up mechanically and collect in suitable container for disposal.

**6.4. Reference to other sections**

Information regarding waste disposal, see Section 13.

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

Smoking, eating and drinking should be prohibited in application area. Avoid contact with skin, eyes and clothing. Use only in well-ventilated areas. Avoid development of dusts/ billows/ steams. Do not inhale dust.

**7.2. Conditions for safe storage, including any incompatibilities****Recommended storage temperature**

Value	15	25	°C
-------	----	----	----

**Requirements for storage rooms and vessels**

Keep tightly closed in a dry and cool place. Storage rooms must be properly ventilated. Protect from exposure to light.

**Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	6.1	Toxic substances

**7.3. Specific end use(s)**

Manufacture of pharmaceutical products

**SECTION 8: Exposure controls/personal protection****8.2. Exposure controls****General protective and hygiene measures**

Do not eat, drink or smoke during work time. Remove contaminated, soaked clothing immediately and

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

dispose of safely. Wash contaminated clothing before reuse.

**Respiratory protection**

Dust mask; Particle filter P2

**Hand protection**

Appropriate Material nitrile rubber - NBR  
 Material thickness 0.11 mm  
 Breakthrough time > 480 min  
 Hand protection must comply with EN 374.

**Eye protection**

Safety glasses; Eye protection must comply with EN 166.

**Body protection**

Protective clothing; complete head, face and neck protection

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

<b>Form</b>	Crystalline powder
<b>Colour</b>	yellow
<b>Odour</b>	odourless
<b>Melting point</b>	
Value	257 to 263 °C
<b>Flash point</b>	
Value	°C
Remarks	Not applicable
<b>Vapour pressure</b>	
Remarks	No data available
<b>Solubility in water</b>	
Value	79.5 mg/l
Remarks	virtually insoluble
<b>Partition coefficient: n-octanol/water</b>	
log Pow	-0.47

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None known

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

No decomposition if stored and applied as directed.

**10.4. Conditions to avoid**

Protect from light and atmospheric moisture. Air

**10.5. Incompatible materials**

None

**10.6. Hazardous decomposition products**

In the event of fire the following can be released: Fume, Carbon monoxide and carbon dioxide

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Acute oral toxicity**

ATE	80	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

#### **Acute oral toxicity (Components)**

##### **Nitrofurantoin**

Species	rat	
LD50	604	g/kg

##### **Nitrofurantoin**

Species	man	
TDLO	80	mg/kg

#### **Acute inhalative toxicity (Components)**

##### **Nitrofurantoin**

Remarks	Harmful by inhalation.
---------	------------------------

#### **Skin corrosion/irritation (Components)**

##### **Nitrofurantoin**

evaluation	Moderately irritating
------------	-----------------------

#### **Serious eye damage/irritation (Components)**

##### **Nitrofurantoin**

evaluation	Moderately irritating
------------	-----------------------

#### **Sensitization (Components)**

##### **Nitrofurantoin**

evaluation	May cause allergic reactions of respiratory system.
------------	---

##### **Nitrofurantoin**

evaluation	May cause allergic skin reactions.
------------	------------------------------------

## **SECTION 12: Ecological information**

### **12.3. Bioaccumulative potential**

#### **Partition coefficient: n-octanol/water**

log Pow	-0.47
---------	-------

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal recommendations for the product**

Disposal in compliance with local and national regulations.

#### **Disposal recommendations for packaging**

Dispose of as unused product.

## **SECTION 14: Transport information**

Trade name: Nitrofurantoin

Substance number: 066727

Version: 1 / CH

Date revised: 10.08.2021

Replaces Version: - / CH

Print date: 10.08.21

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

## **SECTION 15: Regulatory information**

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

#### **Water Hazard Class (Germany)**

Water Hazard Class (Germany)      WGK 3

Remarks      Derivation of WGK according to Annex 1 No. 5.2 AwSV

### **15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

## **SECTION 16: Other information**

### **Hazard statements listed in Chapter 3**

H302      Harmful if swallowed.  
 H317      May cause an allergic skin reaction.  
 H334      May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### **CLP categories listed in Chapter 3**

Acute Tox. 4      Acute toxicity, Category 4  
 Resp. Sens. 1      Respiratory sensitization, Category 1  
 Skin Sens. 1      Skin sensitization, Category 1

### **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.