

# Thioridazine hydrochloride

## Safety Data Sheet

according to Regulation (EC) No. 453/2010

Revision date:

Version: 1.0

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

#### 1.1. Product identifier

Chemical type : Substance  
 Substance name : Thioridazine hydrochloride  
 EC no : 204-992-8  
 CAS No. : 130-61-0  
 Product code : 632511  
 IUPAC name : 10-[2-[(2RS)-1-Methylpiperidin-2-yl]ethyl]-2-(methylsulfonyl)-10H-phenothiazine hydrochloride  
 Formula : C<sub>21</sub>H<sub>27</sub>CIN<sub>2</sub>S<sub>2</sub>

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

##### 1.2.1. Relevant identified uses

Main use category : Pharmaceutical industry.  
 Function or use category : Pharmaceuticals

##### 1.2.2. Uses advised against

No additional information available

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

Duchefa FARMA BV  
 A. Hofmanweg 71  
 2031BH Haarlem - Netherlands  
 T +31(0)23-5319093 - F +31(0)23-5318027  
[info@duchefa.com](mailto:info@duchefa.com) - [www.duchefa.com](http://www.duchefa.com)

#### 1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number
UNITED KINGDOM	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	0870 243 2241

### SECTION 2: Hazards identification

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

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute Tox. 4 (Oral) H302  
 Resp. Sens. 1 H334  
 Skin Sens. 1 H317  
 Aquatic Chronic 1 H410  
 Aquatic Acute 1 H400

Full text of H-phrases: see section 16.

##### Classification according to Directive 67/548/EEC or 1999/45/EC

Xn; R22  
 Xn; R42  
 Xi; R43  
 N; R50/53

Full text of R-phrases: see section 16.

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### Adverse physicochemical, human health and environmental effects

No additional information available

### 2.2. Label elements

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

Hazard pictograms (CLP) :



GHS08

GHS07

GHS09

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H302 - Harmful if swallowed  
H317 - May cause an allergic skin reaction  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) :

P261 - Avoid breathing dust.  
P273 - Avoid release to the environment  
P280 - Wear face protection, protective clothing, protective gloves.  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician

### 2.3. Other hazards

This substance/mixture does not meet the PBT/vPvB criteria of REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Thioridazine hydrochloride	(CAS No.) 130-61-0 (EC no) 204-992-8	99 - 101	Xn; R22 Xn; R42 Xi; R43 N; R50/53

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Thioridazine hydrochloride	(CAS No.) 130-61-0 (EC no) 204-992-8	99 - 101	Acute Tox. 4 (Oral), H302 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 1, H410 Aquatic Acute 1, H400

Full text of R-, H- and EUH-phrases: see section 16.

### 3.2. Mixtures

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician. If possible show this sheet, if not available show packaging or label.

First-aid measures after inhalation : Assure fresh air breathing. If not breathing, give artificial respiration. Obtain medical attention if breathing difficulty persists.

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- First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Seek medical advice.
- First-aid measures after eye contact : Immediately rinse with plenty of water. Seek medical advice.
- First-aid measures after ingestion : Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician. If possible show this sheet, if not available show packaging or label.

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

- Symptoms/injuries : Sleepiness. Weakness. This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders.
- Symptoms/injuries after inhalation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Symptoms/injuries after skin contact : Exposure may produce an allergic reaction.

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

No additional information available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

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

- Fire hazard : On exposure to high temperature, may decompose, releasing toxic gases. In case of fire it can release. Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur oxides. Hydrochloric acid fumes.
- Explosion hazard : None known.

### 5.3. Advice for firefighters

- Precautionary measures fire : Avoid (reject) fire-fighting water to enter environment.
- Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Wear proper protective equipment. Wear respiratory protection.

## SECTION 6: Accidental release measures

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

- General measures : Evacuate unnecessary personnel.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Wear recommended personal protective equipment.
- Emergency procedures : Ensure adequate air ventilation. Avoid raising powdered materials into airborne dust.

#### 6.1.2. For emergency responders

- Protective equipment : Wear proper protective equipment. Wear respiratory protection.

### 6.2. Environmental precautions

Prevent product from entering drains.

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

- For containment : Avoid raising dust.
- Methods for cleaning up : Sweep up dry powder and dispose properly. To clean the floor and all objects contaminated by this material, use : Water.

### 6.4. Reference to other sections

No additional information available

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Handle in accordance with good industrial hygiene and safety procedures. Avoid raising dust. Ensure adequate ventilation.

Handling temperature : 15-25 °C

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

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Store away from heat.

Maximum storage period : 5 year

Storage temperature : < 30 °C

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

Pharmaceutical industry.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Exposure controls

Hand protection : Wear suitable gloves resistant to chemical penetration.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear respiratory protection. Dust production: dust mask with filter type P2.

### SECTION 9: Physical and chemical properties

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

Physical state : Solid

Appearance : Granular powder.

Molecular mass : 407 g/mol

Colour : White.

Odour : characteristic.

Odour threshold : No data available

pH : 3,5-4,5

Melting point : 159-165 °C

Solidification point : No data available

Boiling point : No data available

Flash point : No data available

Relat. evapor. rate comp. to butylacetate : No data available

Flammability (solid, gas) : No data available

Explosive limits : No data available

Vapour pressure : No data available

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Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Water: 1-10 g/ml
Log Pow	: 5,637
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: No data available

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

Light (daylight). High temperature.

### 10.5. Incompatible materials

Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide. Nitrogen oxides. Sulphur oxides. Hydrochloric acid fumes.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Harmful if swallowed.

#### Thioridazine hydrochloride (130-61-0)

LD50 oral rat	1060 mg/kg
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Skin corrosion/irritation : Not classified  
pH: 3,5-4,5

Serious eye damage/irritation : Not classified  
pH: 3,5-4,5

Respiratory or skin sensitisation : May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

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Specific target organ toxicity (single exposure) : Not classified

Specific target organ toxicity (repeated exposure) : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Thioridazine hydrochloride (130-61-0)	
LC50 fishes 1	0,34 mg/l 96 h
EC50 Daphnia 1	0,76 mg/l 24 h

### 12.2. Persistence and degradability

Thioridazine hydrochloride (130-61-0)	
Persistence and degradability	Minimally biodegradable.

### 12.3. Bioaccumulative potential

Thioridazine hydrochloride (130-61-0)	
Log Pow	5,637

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Sewage disposal recommendations : Do not discharge into drains or the environment.

Waste disposal recommendations : Dispose of this material and its container to hazardous or special waste collection point.

## SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

### 14.1. UN number

UN-No. : 3077

### 14.2. UN proper shipping name

Proper Shipping Name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Thioridazine hydrochloride)

Transport document description : UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
(Thioridazine hydrochloride), 9, III

### 14.3. Transport hazard class(es)

Class (UN) : 9

Hazard labels (UN) : 9



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### 14.4. Packing group

Packing group (UN) : III

### 14.5. Environmental hazards

Marine pollutant :



Other information : No supplementary information available.

### 14.6. Special precautions for user

#### 14.6.1. Overland transport

Orange plates :



#### 14.6.2. Transport by sea

No additional information available

#### 14.6.3. Air transport

No additional information available

### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

No ingredients included in the REACH Candidate list

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Data sources	:	Supplier.
Full text of R-, H- and EUH-phrases:		
Acute Tox. 4 (Oral)		Acute toxicity (Oral) Category 4
Aquatic Acute 1		Hazardous to the aquatic environment - acute hazard Category 1
Aquatic Chronic 1		Hazardous to the aquatic environment - chronic hazard Category 1
Resp. Sens. 1		Respiratory sensitization Category 1
Skin Sens. 1		Skin sensitization Category 1
H302		Harmful if swallowed
H317		May cause an allergic skin reaction
H334		May cause allergy or asthma symptoms or breathing difficulties if inhaled
H400		Very toxic to aquatic life
H410		Very toxic to aquatic life with long lasting effects
R22		Harmful if swallowed.
R42		May cause sensitization by inhalation.
R43		May cause sensitisation by skin contact.

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	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*