

## MATERIAL SAFETY DATA SHEET RANITIDINE HYDROCHLORIDE

### 1. Information of the substance / preparation and of the company

Commercial product name    Ranitidine Hydrochloride  
Company:                        Farmabase Pharmaceutical Raw Materials  
                                      Campiello del Trivio, 12  
                                      38068 Rovereto  
                                      Italy  
                                      Phone: 0464/421996  
                                      Fax: 0464/421985  
CAS nr.                            66357-59-3

### 2. Chemical Characterisation & physical form

Chemical formula                 $C_{13}H_{22}N_4O_3S.HCl$   
Molecular weight                314.41  
Physical form                      Ranitidine Hcl is a white to off-white crystalline powder

### 3. Hazards Identification

Hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

The substance may be toxic to blood, liver, urinary system.

Repeated or prolonged exposure to the substance can produce target organs damage.

### 4. First aid measures

Eye contact: check for and remove any contact lenses. in case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Seek medical attention.

Skin contact: in case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Ingestion: do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Inhalation: if inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

### 5. Fire fighting measures

Flammability of the product: may be combustible at high temperature

Products of combustion are: carbon oxides (CO, CO<sub>2</sub>), nitrogen oxides (NO, NO<sub>2</sub>), sulphur oxides (SO<sub>3</sub>).

Slightly flammable to flammable in presence of open flames and sparks, of heat.

Non-flammable in presence of shocks.

Fire fighting media and instructions:

Small fire: use dry chemical powder

Large fire: use water spray, fog or foam. Do not use water jet.

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### 6. Accidental release measures

#### Small spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

#### Large spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

### 7. Handling and storage

#### Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not ingest. Do not breathe dust. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

#### Storage:

Keep container tightly closed. Keep in a cool, well-ventilated place. Do not store above 24°C (75.2°F).

### 8. Exposure controls / personal protection

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limits.

#### Personal protection:

Splash goggles, lab coat, gloves, dust respirator. Be sure to use an approved/certified respirator or equivalent. Consult a specialist before handling this product.

### 9. Physical and chemical properties

Physical state	crystalline powder
Colour	white to off-white
Odour	characteristic
Taste	bitter
Melting point	133.5°C (272.3°F)
Solubility	soluble in cold water, hot water

### 10. Stability and reactivity

The product is stable.

Conditions of instability: excess, incompatible materials

Special remarks on reactivity: light sensitive

### 11. Toxicological information

Toxicity to animals: acute oral toxicity (LD50): 1100 mg/kg (Mouse)

LDL (Dog) – Route: Oral; Dose: 3,000 mg/kg

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Chronic effects on humans: may cause damage to the following organs: blood, liver, urinary system. May cause adverse reproductive effects (female fertility) based on animal studies. It is excreted in human milk.

Toxic effects on humans: hazardous in case of skin contact (irritant), of ingestion, of inhalation.

### 12. Ecological information

Products of biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise. The product itself and its products of degradation are not toxic.

### 13. Disposal considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

### 14. Transport information

The material is non hazardous according to current regulations for transportation of hazardous goods. These codes are not applicable as the material is not hazardous.

### 15. Other regulatory information

DSCL (EEC):

R36/38-irritating to eyes and skin

S2-keep out of the reach of children

S46-if swallowed, seek medical advice immediately and show this container or label

### 16. Other information

The information herein is believed to be correct as of the date but is provided without warranty of any kind. The recipient of our products is responsible for observing any laws & guidelines as applicable.

FARMABASE Pharmaceutical  
Raw Materials