

Ranitidine: sc-203679

MATERIAL SAFETY DATA SHEET

1. COMPOSITION/INFORMATION ON INGREDIENTS

Product Name: Ranitidine
 Catalog Number: sc-203679
 Chemical Name: N-[2-[[[5-[(Dimethylamino)methyl]-2-furanyl)methyl] thio]ethyl]-N'-methyl-2-nitro-1,1-ethanediamine
 Supplier: Santa Cruz Biotechnology, Inc.
 2145 Delaware Ave.
 Santa Cruz, California 95060
 800.457.3801 or 831.457.3800
 Emergency: ChemWatch
 Within the US & Canada: 877-715-9305
 Outside the US & Canada: +800 2436 2255
 (1-800-CHEMCALL) or call +613 9573 3112

2. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Formula: $C_{13}H_{22}N_4O_3S$
 CAS Number: 66357-35-5
 Molecular Weight: 314.405 g/mol

3. HANDLING AND STORAGE

Use in a chemical fume hood, with air supplied by an independent system. Avoid inhalation, contact with eyes, skin and clothing. Avoid prolonged or repeated exposure.

Material should be stored in a tightly sealed container under the storage condition stated on the Product Information sheet and on the vial label.

4. STABILITY AND REACTIVITY

Stability: Stable under normal handling conditions.

Conditions to avoid: Not applicable for this product

Hazardous Combustion/Decomposition of Product: May emit toxic gases such as carbon dioxide, carbon monoxide and nitrogen oxide upon thermal decomposition.

5. HAZARDS IDENTIFICATION

RTECS substance category: Drug Exposure may cause irritation to eyes, mucous membranes upper respiratory tract and skin. Exposure may also cause the following: Rigidity, includes catalepsy; Muscle contraction or spasticity; Increased pulse rate; Jaundice and impaired liver function; Degenerative changes in brain coverings; Effect on specific coenzymes.

6. TOXICOLOGICAL INFORMATION

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

RTECS No: KM6556500
 Target Organs: Eyes; Respiratory system; Skin; Central nervous system; Cardiovascular system; Digestive system;
 Toxicity Data: ORL-MAN TDLO: 4286µg/kg; ORL- WMN TDLO: 12mg/kg; ORL-RAT LD50: >5gm/kg; IVN-RAT LD50: 93mg/kg; IMS-RAT LD50: 2018mg/kg; ORL-MUS LD50: 884mg/kg; IVN-MUS LD50: 80mg/kg; IMS-MUS LD50: 280mg/kg; IPR-MUS TDLo: 570mg/kg.

Only selected Registry of Toxic Effects of Chemical Substances (RTECS) data is presented above. See actual entry in RTECS for complete information.

7. REGULATORY INFORMATION

Classification: Caution: Substance not yet fully tested.

Safety Phrases: S22 - Do not breathe dust
 S24/25 - Avoid contact with skin and eyes
 S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

Risk Phrases: —

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Wear appropriate chemical resistant gloves, safety goggles and other protective clothing to prevent contact with eyes and skin. Laboratory should be equipped with a safety shower and eye wash station. Avoid prolonged or repeated exposure. Do not breathe dust. Do not get in eyes, on skin or on clothing. Wash thoroughly after handling.

9. FIRST-AID MEASURES

In cases of SKIN CONTACT: Wash with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes and wash before wearing. In case of eye contact, flush with copious amounts of water for at least 15 minutes.

In cases of INHALATION: Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration.

In cases of INGESTION: If swallowed, rinse mouth out with water, contact local poison centre and call a physician.

10. FIRE-FIGHTING MEASURES

Extinguishing Media: Material is non-combustible. Use extinguishing media appropriate to surrounding fire conditions.

Unusual Fire and Explosive Hazards: May emit toxic gases upon thermal decomposition.

Special Fire-Fighting Procedures: Wear protective clothing to prevent contact with skin and eyes.

11. ACCIDENTAL RELEASE MEASURES

Wear appropriate protective clothing. Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Decontaminate spill site with 10% caustic solution and ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under DISPOSAL CONDITIONS.

12. ECOLOGICAL INFORMATION

Data not yet available - treat as potentially toxic if released into the environment.

13. DISPOSAL CONDITIONS

As specific country, federal, state and local environmental regulations are varied and change frequently, we recommend that you contact your local department for Health Services for information on the correct disposal of this product.

14. TRANSPORT INFORMATION

U.N.Number:
 Proper Shipping Name:
 IATA Class:
 IATA Packing Group:

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

7/21/2010