

Buformin Hydrochloride: sc-207383



The Power to Question

MATERIAL SAFETY DATA SHEET

Section 1

Chemical Name Buformin Hydrochloride

Synonyms N-Butylidodicarbonimidic Diamide Hydrochloride; 1-Butylbiguanide Hydrochloride; 1-Butylbiguanide Hydrochloride; Buformine; Buformin; Butylbiguanide; Butyldiguanide; DBV; Dibetos B; Glybigid; Panformin; Sindiatil; Tidemol; Ziavetine;

Catalog Nbr sc-207383

Cas Reg. No 1190-53-0

Supplier Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
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

Section 2 - Hazardous Ingredients/Identity Information

The toxicological properties have not been thoroughly investigated. Exercise due care!

Section 3 - Physical/Chemical Characteristics

Boiling Point N/A

Vapor Pressure N/A

Vapor Density N/A

Solubility in Water N/A

Molecular Formula C₆H₁₆ClN₅

Molecular Weight 193.6

Appearance and Odor

White Solid

Specific Gravity(H₂O=1)

N/A

Melting Point

177-179°C

Evaporation Rate (Butyl Acetate=1) N/A

Section 4 - Reactive Data

Stability Stable, store under inert gas

**Incompatibility
(Materials to Avoid)**

strong oxidizing agents

Conditions to Avoid strong oxidizing agents

**Hazardous
Decomposition or
Byproducts** sulfur oxides, carbon monoxide,
carbon dioxide, nitrogen oxides and
hydrogen chloride

Hazardous Polymerization

will not occur

Section 5 - Control Measures

Respiratory Protection Niosh/Msha approved respirator

Ventilation

Hood

Protective Gloves Chemical resistant gloves

Eye Protection

chemical safety goggles

Other Protective Clothing Lab coat or apron

Other Protection

safety shower and eye bath

Section 6 - First Aid Measures

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Skin Rinse with copious amounts of water for 15 minutes. Remove contaminated clothing and shoes.

Ingestion Rinse mouth out with water, provided the person is conscious. Seek medical attention.

Eyes Flush eyes with copious amounts of water, separating eyelids with fingers.

Section 7 - Health Hazard Data

Health Hazards
(Acute and Chronic)

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

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

Buformin, clinically used for diabetes mellitus, is known to improve resistance to insulin in patients. It suppresses the expression of glyceraldehyde 3-phosphate dehydrogenase.

Medical Conditions
Generally Aggravated by
Exposure

The toxicological properties have not been thoroughly investigated. Exercise due care!

Section 8 - Precautions for Safe Handling and Use

Steps to be Taken in
Case Material is
Released or Spilled

wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Waste Disposal Method

Dispose of in accordance with all federal, state and local environmental regulations.

Precautions to Be
Taken in Handling
and Storage

Store in a cool, dry and well ventilated area. Keep all containers securely closed when not in use. NOTE: Static ignition charge may result from handling and use. It is recommended that containers and equipment be electrically bonded and grounded. Store at -20° C.

Section 9 - Fire and Explosion Hazard Data

Extinguishing Media

Water; Carbon dioxide; dry powder; other media - not determined.

Special Fire Fighting
Procedures

Use water spray to cool fire - exposed containers and structures. Use water spray to disperse any vapors; reignition is always a potential. Use self-contained breathing apparatus as described above.

Unusual Fire and
Explosion Hazards

Toxic fumes are emitted under fire conditions.

Section 10 - Transportation Information and regulatory information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

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.