

RIGHT TO KNOW

HAZARDOUS SUBSTANCE FACT SHEET

Common Name: BRUCINE

Synonyms: 10,11-Dimethoxystyrychnine; (-)Brucine Dihydrate
 CAS Number: 357-57-3
 Molecular Formula: $C_{23}H_{26}N_2O_4$
 RTK Number: 0270
 Description: White, odorless, crystalline (sand-like) solid with a very bitter taste

HAZARD DATA

Hazard Rating	Firefighting	Reactivity
Health: 4 Fire: 1 Reactivity: 1 DOT #: UN 1570 ERG #: 152 DOT: 6.1 Hazard: (poison)	Use dry chemical, CO ₂ , water spray or foam extinguishers. POISONOUS GASES ARE PRODUCED IN FIRE, including <i>Nitrogen Oxides</i> .	Brucine is not compatible with OXIDIZING AGENTS (such as PERCHLORATES, PEROXIDES, PERMANGANATES, CHLORATES, NITRATES, CHLORINE, BROMINE and FLUORINE).

SPILLS/LEAKS

Isolation Distances:

Liquid Spill: 50 meters (150 feet)
Solid Spill: 25 meters (75 feet)
Fire: 800 meters (1/2 mile)

Evacuate personnel.
 Secure and control entrance to the area.
 If it is safe to do so, remove potential ignition sources.
 Collect *powdered* material in the most convenient and safe manner and deposit in sealed containers.
 Do not allow this substance to enter waterways, including sewers, as it is very toxic to aquatic life with long-lasting effects.
 Ventilate area after clean-up is complete.

PHYSICAL PROPERTIES

Melting Point: 178 °C (352 °F)
Molecular Weight: 394.51
Boiling Point: 470 °C (878 °F)
Water Solubility: Slightly soluble
Specific Gravity: >1 at 20 °C (68 °F)

EXPOSURE LIMITS

There are no occupational exposure limits to this substance.

PAC: PAC-1 = 0.29 mg/m³
 PAC-2 = 3.2 mg/m³
 PAC-3 = 36 mg/m³

PROTECTIVE EQUIPMENT

Gloves: Butyl or Nitrile
Coverall: Tychem® QC or Tychem® SL
Respirator: Self-contained breathing apparatus with a full facepiece operated in a pressure-demand or other positive-pressure mode

ACUTE HEALTH EFFECTS

Eyes: Irritation
Skin: Irritation
Inhalation: Irritation, headache, nausea, vomiting, ringing in the ear, disturbed vision, restlessness, excitement, twitching, convulsions, paralysis, death

FIRST AID AND DECONTAMINATION

Immediately flush with large amounts of water for at least 15 minutes.
 Remove contaminated clothing. Wash contaminated skin with soap and water.
 Shampoo hair immediately if contaminated.
 Remove the person from exposure.
 Begin rescue breathing (using universal precautions) if breathing has stopped and CPR if heart action has stopped.
 Transfer promptly to a medical facility.