

1 - Product and Company Information

ProductNameIMIDAZOLE-D4, 95 ATOM % D

2 - Hazards Identification

SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT  
Causes burns. Harmful if swallowed.

3 - Composition/Information on Ingredients

Product Name	CAS #	EC no	Annex I
IMIDAZOLE-D4, 95 ATOM % D	6923-01-9	None	None

FormulaC3 D4N2  
Molecular Weight72.11 AMU

4 - First Aid Measures

AFTER INHALATION  
If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

AFTER EYE CONTACT  
Assure adequate flushing of the eyes by separating the eyelids with fingers.

AFTER INGESTION  
If swallowed, wash out mouth with water provided person is conscious. Call a physician.

5 - Fire Fighting Measures

EXTINGUISHING MEDIA  
Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

SPECIAL RISKS  
Specific Hazard(s): Emits toxic fumes under fire conditions.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6 - Accidental Release Measures

PERSONAL PRECAUTION PROCEDURES TO BE FOLLOWED IN CASE OF LEAK OR SPILL  
Evacuate area.

PROCEDURE(S) OF PERSONAL PRECAUTION(S)  
Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves.

METHODS FOR CLEANING UP  
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7 - Handling and Storage

HANDLING  
Directions for Safe Handling: Do not breathe dust. Do not get in eyes, on skin, on clothing.

STORAGE  
Conditions of Storage: Keep tightly closed. Store in a cool dry place.

8 - Exposure Controls / Personal Protection

ENGINEERING CONTROLS  
Safety shower and eye bath. Use only in a chemical fume hood.

GENERAL HYGIENE MEASURES  
Wash contaminated clothing before reuse. Wash thoroughly after handling.

PERSONAL PROTECTIVE EQUIPMENT  
Respiratory Protection: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or type P1 (EN 143) respirator.  
Hand Protection: Rubber gloves.  
Eye Protection: Chemical safety goggles.

9 - Physical and Chemical Properties

pH	N/A
BP/BP Range	N/A
MP/MP Range	89.0 - 91.0 °C
Flash Point	N/A
Flammability	N/A
Autoignition Temp	N/A
Oxidizing Properties	N/A
Explosive Properties	N/A
Explosion Limits	N/A
Vapor Pressure	N/A
Partition Coefficient	N/A
Viscosity	N/A
Vapor Density	N/A
Saturated Vapor Conc.	N/A
Evaporation Rate	N/A
Bulk Density	N/A
Decomposition Temp.	N/A
Solvent Content	N/A
Water Content	N/A
Surface Tension	N/A
Conductivity	N/A
Miscellaneous Data	N/A
Solubility	N/A

10 - Stability and Reactivity

STABILITY  
Stable: Stable.  
Conditions of Instability: Moisture.  
Conditions to Avoid: Moisture.  
Materials to Avoid: Strong oxidizing agents, Acids, Acid anhydrides.

HAZARDOUS DECOMPOSITION PRODUCTS  
Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia, Hydrogen cyanide.

HAZARDOUS POLYMERIZATION  
Hazardous Polymerization: Will not occur

11 - Toxicological Information

SIGNS AND SYMPTOMS OF EXPOSURE  
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting. Inhalation may result in spasm, inflammation and edema of the larynxand bronchi, chemical pneumonitis, and pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

ROUTE OF EXPOSURE  
Skin Contact: Causes burns.  
Skin Absorption: May be harmful if absorbed through the skin.  
Eye Contact: Causes burns.  
Inhalation: May be harmful if inhaled.  
Ingestion: Harmful if swallowed.

12 - Ecological Information

No data available.

13 - Disposal Considerations

SUBSTANCE DISPOSAL  
Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

14 - Transport Information

RID/ADR  
UN#: 3259  
Class: 8  
PG: II  
  
Proper Shipping Name: Amines, solid, corrosive, n.o.s.

IMDG  
UN#: 3259  
Class: 8  
PG: II  
Proper Shipping Name: AMINES, SOLID, CORROSIVE, N.O.S.  
Marine Pollutant: No  
Severe Marine Pollutant: No  
Technical Name: Required

IATA  
UN#: 3259  
Class: 8  
PG: II  
Proper Shipping Name: Amines, solid, corrosive, n.o.s.  
Inhalation Packing Group I: No  
Technical Name: Required

15 - Regulatory Information

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES  
INDICATION OF DANGER: C  
Corrosive.  
R-PHRASES: 34-22  
Causes burns. Harmful if swallowed.  
S-PHRASES: 45-26-36/37/39-22  
In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves, and eye/face protection. Do not breathe dust.

Caution: Substance not yet fully tested (EU).

COUNTRY SPECIFIC INFORMATION

Germany  
WGK: 3  
Self-Classification

16 - Other Information