# MSDS for Benzimidazole

Material Safety Data Sheet
Benzimidazole

## Section 1 - Chemical Product and Company Identification

**MSDS Name:** Benzimidazole
**Catalog Numbers:** 18642-0000, 18642-0250, 18642-1000, 18642-5000
**Synonyms:**
**Company Identification:** Acros Organics BVBA
Janssen Pharmaceuticalaan 3a
2440 Geel, Belgium
**Company Identification: (USA)** Acros Organics
One Reagent Lane
Fair Lawn, NJ 07410
**For information in the US, call:** 800-ACROS-01
**For information in Europe, call:** +32 14 57 52 11
**Emergency Number, Europe:** +32 14 57 52 99
**Emergency Number US:** 201-796-7100
**CHEMTREC Phone Number, US:** 800-424-9300
**CHEMTREC Phone Number, Europe:** 703-527-3887

## Section 2 - Composition, Information on Ingredients

| CAS# | Chemical Name: | % | EINECS# |
|---|---|---|---|
| 51-17-2 | Benzimidazole | 98% | 200-081-4 |

**Hazard Symbols:** XI

**Risk Phrases:** 36/37/38

## Section 3 - Hazards Identification

### EMERGENCY OVERVIEW

*Irritating to eyes, respiratory system and skin.*

**Potential Health Effects**

**Eye:** Causes eye irritation.
**Skin:** Causes skin irritation. May be harmful if absorbed through the skin.
**Ingestion:** May cause irritation of the digestive tract. May be harmful if swallowed.
**Inhalation:** Causes respiratory tract irritation. May be harmful if inhaled.
**Chronic:**

## Section 4 - First Aid Measures

**Eyes:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.
**Skin:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
**Ingestion:** Get medical aid. Wash mouth out with water.
**Inhalation:** Remove from exposure and move to fresh air immediately. If not

breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**Notes to Physician:** Treat symptomatically and supportively.

## Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

**Extinguishing Media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

**Spills/Leaks:** Vacuum or sweep up material and place into a suitable disposal container.

## Section 7 - Handling and Storage

**Handling:** Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:**

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits**

CAS# 51-17-2:

**Personal Protective Equipment**

**Eyes:** Wear chemical splash goggles.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

**Physical State:** Crystalline powder
**Color:** beige - brown
**Odor:** Not available
**pH:** Not available
**Vapor Pressure:** Not available
**Viscosity:** Not available
**Boiling Point:** > 360 deg C (> 680.00癒)
**Freezing/Melting Point:** 171 - 174 deg C
**Autoignition Temperature:** Not available
**Flash Point:** Not available
**Explosion Limits: Lower:** Not available
**Explosion Limits: Upper:** Not available
**Decomposition Temperature:** Not available
**Solubility in water:** Slightly soluble
**Specific Gravity/Density:**

**Molecular Formula:** C7H6N2
**Molecular Weight:** 118.14

## Section 10 - Stability and Reactivity

| | |
|---|---|
| **Chemical Stability:** | Stable under normal temperatures and pressures. Darkens on exposure to light and air. |
| **Conditions to Avoid:** | Incompatible materials. |
| **Incompatibilities with Other Materials** | Strong oxidizing agents. |
| **Hazardous Decomposition Products** | Carbon monoxide, oxides of nitrogen, carbon dioxide. |
| **Hazardous Polymerization** | Has not been reported. |

## Section 11 - Toxicological Information

| | |
|---|---|
| **RTECS#:** | CAS# 51-17-2: DD5425000 |
| **LD50/LC50:** | RTECS:<br>**CAS# 51-17-2:** Oral, mouse: LD50 = 2910 mg/kg;<br>.<br>Other: oral rat LDlo = 500 mg/kg |
| **Carcinogenicity:** | Benzimidazole - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65. |
| **Other:** | See actual entry in RTECS for complete information. The toxicological properties have not been fully investigated. |

## Section 12 - Ecological Information

**Ecotoxicity:** Not available

## Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

## Section 14 - Transport Information

| | IATA | IMO | RID/ADR |
|---|---|---|---|
| **Shipping Name:** | Not regulated. | Not regulated. | Not regulated. |
| **Hazard Class:** | | | |
| **UN Number:** | | | |
| **Packing Group:** | | | |

## Section 15 - Regulatory Information

**European/International Regulations**

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36/37/38 Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 37/39 Wear suitable gloves and eye/face protection.

WGK (Water Danger/Protection)

CAS# 51-17-2: Not available

Canada

CAS# 51-17-2 is listed on Canada's NDSL List

**US Federal**

TSCA

CAS# 51-17-2 is listed on the TSCA Inventory.

## Section 16 - Other Information

**MSDS Creation Date:** 7/16/1996

**Revision #2 Date** 6/28/2004

**Revisions were made in Sections:** General revision.

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantibility or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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