



## MATERIAL SAFETY DATA SHEET

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Imidazole

### SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**MSDS Name:** Imidazole

**Catalog Numbers:**

12202-0000, 12202-0020, 12202-0050, 12202-1000, 12202-5000, 30187-0000,  
30187-0010, 30187-2500

**Synonyms:**

Glyoxaline

**Company Identification (Europe): Acros Organics BVBA**

Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

**Company Identification (USA): Acros Organics**

One Reagent Lane  
Fairlawn, NJ 07410

For information in North America, call: 800-ACROS-01

For information in Europe, call: 0032(0) 14575211

For emergencies in the US, call CHEMTREC: 800-424-9300

For emergencies in Europe, call: 0032(0) 14575299

### SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	288-32-4
Chemical Name	:	Imidazole
%	:	>98,5%
EINECS#	:	206-019-2
Hazard Symbols	:	C
Risk Phrases	:	22 34

### SECTION 3 - HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW

Harmful if swallowed. Causes burns. Possible risk of harm to the unborn child.

#### Potential Health Effects

Eye:

Causes eye burns.

Skin:

Causes skin burns. May be absorbed through the skin.

Ingestion:

Harmful if swallowed. Causes gastrointestinal tract burns.

Inhalation:

May cause irritation of the respiratory tract with burning pain in the nose and throat, coughing, wheezing, shortness of breath and

pulmonary edema. Causes chemical burns to the respiratory tract. Inhalation may be fatal as a result of spasm, inflammation, edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Chronic:

No information found.

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## SECTION 4 - FIRST AID MEASURES

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### Eyes:

Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

### Skin:

Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

### Ingestion:

Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid immediately.

### Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

### Notes to Physician:

Treat symptomatically and supportively.

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## SECTION 5 - FIRE FIGHTING MEASURES

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### General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air.

### Extinguishing Media:

Use water spray, dry chemical, carbon dioxide, or chemical foam.

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## SECTION 6 - ACCIDENTAL RELEASE MEASURES

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**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. Avoid runoff into storm sewers and ditches which lead to waterways.

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## SECTION 7 - HANDLING and STORAGE

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### Handling:

Minimize dust generation and accumulation. Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Take precautionary measures against static discharges. Use only in a

chemical fume hood.

**Storage:**

Store in a cool, dry place. Store in a tightly closed container.  
Corrosives area.

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## SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

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**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.

**Personal Protective Equipment**

**Eyes:**

Wear chemical 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. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

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## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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Physical State: Flakes

Color: white to off-white

Odor: amine-like

pH: 10.5 (6.7% aq.sol.)

Vapor Pressure: 0.003mbar @20 deg C

Viscosity: Not available.

Boiling Point: 255 - 256 deg C @760mmHg

Freezing/Melting Point: 86 - 90 deg C

Autoignition Temperature: 480 deg C ( 896.00 deg F)

Flash Point: 145 deg C ( 293.00 deg F)

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: 633 g/l water (20°C)

Specific Gravity/Density:

Molecular Formula: C3H4N2

Molecular Weight: 68.08

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## SECTION 10 - STABILITY AND REACTIVITY

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**Chemical Stability:**

Stable under normal temperatures and pressures.

**Conditions to Avoid:**

Incompatible materials, dust generation.

**Incompatibilities with Other Materials:**

Strong oxidizing agents, acids, acid chlorides.

**Hazardous Decomposition Products:**

Hydrogen cyanide, nitrogen oxides, carbon monoxide, carbon dioxide, ammonia.

Hazardous Polymerization: Will not occur.

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**SECTION 11 - TOXICOLOGICAL INFORMATION**

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**RTECS#:**

CAS# 288-32-4: NI3325000

**LD50/LC50:**

CAS# 288-32-4: Oral, mouse: LD50 = 880 mg/kg; Oral, rat: LD50 = 220 mg/kg.

**Carcinogenicity:**

Imidazole -

Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

**Other:**

See actual entry in RTECS for complete information.

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**SECTION 12 - ECOLOGICAL INFORMATION**

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**Ecotoxicity:**

Bacteria: Phytobacterium phosphoreum: 231 ppm; 0.5H; microtox testDaphnia: 341.5 mg/l; 48H; EC/LC50 acuteAlgae: 130 mg/l; 72H; EC/LC50Bacteria: 1200 mg/l; 17H; EC/LC50log POW: -0.02

**Other**

Biodegradable. Avoid entering into waters or underground water.

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**SECTION 13 - DISPOSAL CONSIDERATIONS**

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

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**SECTION 14 - TRANSPORT INFORMATION**

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**IATA**

Shipping Name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.\*

Hazard Class: 8

UN Number: 3263

Packing Group: III

**IMO**

Shipping Name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Hazard Class: 8

UN Number: 3263

Packing Group: III

**RID/ADR**

Shipping Name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S.

Hazard Class: 8

UN Number: 3263

Packing group: III

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## SECTION 15 - REGULATORY INFORMATION

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### European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 22 Harmful if swallowed.

R 34 Causes burns.

R 63 Possible risk of harm to the unborn child.

Safety Phrases:

S 22 Do not breathe dust.

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

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 288-32-4: 1

**United Kingdom Occupational Exposure Limits**

**United Kingdom Maximum Exposure Limits**

**Canada**

CAS# 288-32-4 is listed on Canada's DSL List.

CAS# 288-32-4 is not listed on Canada's Ingredient Disclosure List.

**Exposure Limits**

**US FEDERAL**

TSCA

CAS# 288-32-4 is listed on the TSCA inventory.

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## SECTION 16 - ADDITIONAL INFORMATION

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MSDS Creation Date: 7/16/1996 Revision #2 Date: 2/06/2004

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability 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 way 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.