

## 1: Identification of substance / mixture

### 1. Product Identifier

### Substance

Product Name	<b>Imidazole</b>
Product Code	I52000
CAS Number	288-32-4
Other Names	[1,3-Diaza-2,4-cyclopentadiene] Glyoxaline I52000
IUPAC	
MFCD Number	
EC/EINECS	206-019-2
REACH Number	Index-No

### 2. Relevant identified uses of the substance or mixture and uses advised against

Research and Laboratory Use

### 3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd  
Bildeston Road, Chelsworth  
Ipswich  
Suffolk  
IP77LE  
UK

Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk



### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

H302	Acute Tox. 4	
H314	Skin Corr. 1B	
H318	Eye Dam. 1	
H360	Repr. 1A	

### 2. Label elements

Signal Word **Danger**



### Hazard Statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H360	May damage fertility or the unborn child ..

### Precautionary Phrases

P201	Obtain special instructions before use.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician.

### 3. Other Hazards

Additional precautionary phrases are located throughout the safety data sheet

## 3. Composition / Information on Ingredients

### 1. Substances

Product Name	Hazards	Concentration
Imidazole		
	CAS Number: 288-32-4 EC/EINECS: 206-019-2	H302, H314, H318, H360 Acute Tox. 4, Eye Dam. 1, Repr. 1A, Skin Corr. 1B <=100%

## 4. First Aid Measures

### 1. Description of first aid measures

<i>Skin Contact</i>	Wash immediately with plenty of soap and water. Consult a doctor.
<i>Eye Contact</i>	P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Bathe the eye with running water for 15 minutes. Consult a doctor.
<i>Ingestion</i>	P301 + P312: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting. Wash out mouth with water. Consult a doctor.
<i>Inhalation</i>	Move to fresh air in case of accidental inhalation of vapours. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Consult a doctor.

### 2. Most important symptoms and effects

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

### 3. Indication of any immediate medical attention

P310: Immediately call a POISON CENTER or doctor/physician.  
Notes to Physician: Treat symptomatically

## 5. Firefighting measures

### 1. Extinguishing Media

<i>Suitable</i>	Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide.
<i>Unsuitable</i>	None

### 2. Special Hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx) Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.  
Wear protective clothing to prevent contact with skin and eyes.

## 6. Accidental Release Measures

### 1. Personal Precautions

Refer to section 8 of SDS for personal protection details.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Transfer to a closable, labelled salvage container for disposal by an appropriate method.

## 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

*Safe Handling*                      Ensure there is exhaust ventilation of the area.  
Avoid direct contact with the substance.  
Keep in original container only.  
P201: Obtain special instructions before use.

*Protection against  
explosions and fires*              No special requirements  
Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks*        Store in cool, well ventilated area.

*Storage Controls*                No special requirements

*Maintaining Integrity*         No special requirements

*Other advice*                      No further information available.

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

## 2. Exposure Controls

<i>General protective and hygiene measures</i>	P280: Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes Immediately remove any contaminated clothing Wash hands during breaks and at the end of handling the material
<i>Engineering measures</i>	Ensure there is exhaust ventilation of the area.
<i>Eye / Face Protection</i>	Tightly fitting safety goggles. Face-shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)
<i>Hand protection</i>	Protective gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it
<i>Respiratory protection</i>	P260: Do not breathe dust/fume/gas/mist/vapours/spray. Respiratory protective device with particle filter. Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<i>Skin protection</i>	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<i>Other personal protection advice</i>	No data.

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	Crystals
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	88-91°C
Initial boiling point and boiling range	No Data Available
Flash point	145°C
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	1.03 g/cm3
Solubility(ies):	6.33 g/l in water
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

### 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

No data available

## 2. Stability

Stable under recommended storage conditions

## 3. Possibility of Hazardous Reactions

No data available

## 4. Conditions to Avoid

Heat.  
Moist Air.  
Water

## 5. Incompatible Materials

Strong oxidizing agents.

## 6. Hazardous Decomposition Products

In combustion emits toxic fumes.

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	Oral LD50 (rat) 25,800 mg/kg
<i>Skin corrosion/irritation</i>	No Data
<i>Serious eye Damage/irritation</i>	No Data
<i>Respiratory or skin sensitisation</i>	No Data
<i>Germ Cell mutagenicity</i>	No Data
<i>Carcinogenicity</i>	No Data
<i>Reproductive toxicity</i>	No Data
<i>STOT-single exposure</i>	No Data
<i>STOT-repeated exposure</i>	No Data
<i>Aspiration hazard</i>	No Data

### 2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

## 12. Ecological Information

### 1. Toxicity

Freshwater Algae  
EC50 30mg/L - 72h  
EC50 82mg/L - 96h

Freshwater fish  
LC50 280mg/L - 48h

Microtox  
EC50 1200mg/L - 17h *Pseudomonas putida*  
EC50 231mg/L - 30min *Photobacterium phosphoreum*

Waterflea  
EC50 341.5mg/L 48h

### 2. Persistence and degradability

Readily biodegradable

### 3. Bio-Accumulative Potential

No information available

#### 4. Mobility and Soil

No information available

#### 5. Results of PBT & vPvB assessment

No information available

#### 6. Other adverse effects

No information available

### 13. Disposal Considerations

#### 1. Waste Treatment Methods

*Disposal Operations* Hand over to authorised disposal company as hazardous waste.

*Disposal of Packaging* Disposal must be made according to official regulations.

### 14. Transport Information

#### Air (ICAO)

1. **UN Number:** 3263
2. **Shipping Name:** Corrosive solid, basic, organic, n.o.s.
3. **Transport hazard class(es):** : 8 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

#### Road (ADR)

1. **UN Number:** 3263
2. **Shipping Name:** CORROSIVE SOLID, BASIC, ORGANIC, N.O.S (Imidazole).
3. **Transport hazard class(es):** : 8 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**
7. **Transport in bulk:**

#### Sea (IMDG)

1. **UN Number:** 3263
2. **Shipping Name:** Corrosive solid, basic, organic, n.o.s.
3. **Transport hazard class(es):** : 8 Sub Class :



4. **Packing group:** II
5. **Environmental hazards:**
6. **Special Precautions for user:**

**7. Transport in bulk:** IBCINS: IBC08  
IBCPPOV: B4, B21  
  
TANKPROV: TP33

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

Product is not subject to any additional regulations or provisions.

### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

This safety data sheet complies to the requirements of Regulation (EC) No. 1907/2006

ADR: Accord Europeen sur le transport des marchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des marchandises dangereuses par chemin de fer (Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association

ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS:Chemical Abstracts Service

### 3. Disclaimer

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication.

The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text