

IMIDAZOLE

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Revision No: 11

Section 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product name: IMIDAZOLE

CAS number: 288-32-4

EINECS number: 206-019-2

Index number: 613-319-00-0

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

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

Company name: Elemental Microanalysis Ltd

1 Hameldown Road Okehampton

- Okehampton
- Devon
- EX20 1UB
- United Kingdom
- Tel: 44(0)183754446
- Fax: 44(0)183754544
- Email: info@microanalysis.co.uk

### 1.4. Emergency telephone number

Emergency tel: +44 (0) 7990 767375

(office hours only)

## Section 2: Hazards identification

2.1. Classification of the sub	stance or mixture	
Classification under CLP: Acute Tox. 4: H302; Repr. 1B: H360Fd; Skin Corr. 1C: H314		
lost important adverse effects:	Harmful if swallowed. Causes severe skin burns and eye damage. May damage fertility.	
	Suspected of damaging the unborn child.	
2.2. Label elements		
Label elements:		
Hazard statements:	H302: Harmful if swallowed.	
H314: Causes severe skin burns and eye damage.		
H360Fd: May damage fertility. Suspected of damaging the unborn child.		
Hazard pictograms: GHS05: Corrosion		
	GHS07: Exclamation mark	
	GHS08: Health hazard	

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Signal words:DangerPrecautionary statements:P260: Do not breathe dust.P280: Wear protective clothing, eye protection, face protection.P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomitingP303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing.Rinse skin with water .P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for<br/>breathing.2.3. Other hazards

Other hazards: Danger of serious damage to health by prolonged exposure.

**PBT:** This product is not identified as a PBT/vPvB substance.

## Section 3: Composition/information on ingredients

## 3.1. Substances

Chemical identity: IMIDAZOLE CAS number: 288-32-4 EINECS number: 206-019-2

## Section 4: First aid measures

## 4.1. Description of first aid measures

Skin contact:	Remove all contaminated clothes and footwear immediately unless stuck to skin.
	Drench the affected skin with running water for 10 minutes or longer if substance is still
	on skin. Transfer to hospital if there are burns or symptoms of poisoning. Consult a
	doctor.
Eye contact:	Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist
	examination. Consult a doctor.
Ingestion:	Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10
	minutes. If unconscious, check for breathing and apply artificial respiration if necessary.
	If unconscious and breathing is OK, place in the recovery position. Transfer to hospital
	as soon as possible.
Inhalation:	Remove casualty from exposure ensuring one's own safety whilst doing so. If
	unconscious and breathing is OK, place in the recovery position. If conscious, ensure
	the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and
	provide oxygen if available. Transfer to hospital as soon as possible. Consult a doctor.

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#### 4.2. Most important symptoms and effects, both acute and delayed

Skin contact: Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

Eye contact: Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

## 4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Eye bathing equipment should be available on the premises.

## Section 5: Fire-fighting measures

#### 5.1. Extinguishing media

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used. Use water spray

to cool containers.

## 5.2. Special hazards arising from the substance or mixture

Exposure hazards: Corrosive. In combustion emits toxic fumes.

#### 5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

#### Section 6: Accidental release measures

6.1. Personal precautions, pro	otective equipment and emergency procedures		
Personal precautions:	Notify the police and fire brigade immediately. If outside keep bystanders upwind and		
	away from danger point. Mark out the contaminated area with signs and prevent access		
	to unauthorised personnel. Do not attempt to take action without suitable protective		
	clothing - see section 8 of SDS. Do not create dust. Evacuate the area immediately.		
6.2. Environmental precautions			
Environmental precautions:	Do not discharge into drains or rivers. Alert the neighbourhood to the presence of fumes		
	or gas.		
6.3. Methods and material for containment and cleaning up			
Clean-up procedures:	Clean-up should be dealt with only by qualified personnel familiar with the specific		
	substance. Transfer to a closable, labelled salvage container for disposal by an		

#### 6.4. Reference to other sections

Reference to other sections: Refer to section 8 of SDS.

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### Section 7: Handling and storage

### 7.1. Precautions for safe handling

Handling requirements: Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area. Do not handle in a confined space. Avoid the formation or spread of dust in the air.

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

Storage conditions: Store in a cool, well ventilated area. Keep container tightly closed.

## 7.3. Specific end use(s)

Specific end use(s): No data available.

## Section 8: Exposure controls/personal protection

8.1. Control parameters

Workplace exposure limits: No data available.

## **DNEL/PNEC** Values

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Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	10.6 mg/m3	-	Systemic
DNEL	Dermal	1.5mg/kg BW/d	-	Systemic
PNEC	Soil (agricultural)	0.0425mg/Kg	-	-
PNEC	Marine water	0.013mg/L	-	-
PNEC	Fresh water	0.13mg/L	-	-
PNEC	Marine sediments	0.0336mg/Kg	-	-
PNEC	Fresh water sediments	0.336mg/Kg	-	-
PNEC	Microorganisms in sewage	10mg/L	-	-
	treatment			
PNEC	-	-	-	-

## Hazardous ingredients:

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Туре	Exposure	Value	Population	Effect
DNEL	Inhalation	10.6 mg/m3	-	Systemic
DNEL	Dermal	1.5mg/kg BW/d	-	Systemic
PNEC	Soil (agricultural)	0.0425mg/Kg	-	-
PNEC	Marine water	0.013mg/L	-	-
PNEC	Fresh water	0.13mg/L	-	-
PNEC	Marine sediments	0.0336mg/Kg	-	-

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PNEC	Fresh water sediments	0.336mg/Kg	-	-
PNEC	Microorganisms in sewage	10mg/L	-	-
	treatment			
PNEC	-	-	-	-

## 8.2. Exposure controls

Engineering measures:Ensure there is sufficient ventilation of the area.Respiratory protection:Self-contained breathing apparatus must be available in case of emergency. Respiratory<br/>protective device with particle filter.Hand protection:Impermeable gloves.Eye protection:Tightly fitting safety goggles. Ensure eye bath is to hand.Skin protection:Impermeable protective clothing.Prevent from entering in public sewers or the immediate environment.

Section 9: Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

State:	Crystals		
Colour:	White		
Odour:	Characteristic odour		
Evaporation rate:	No data available.		
Oxidising:	No data available.		
Solubility in water:	Soluble		
Viscosity:	No data available.		
Boiling point/range°C:	256	Melting point/range°C:	88-91
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	145 <b>Part.</b>	.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	0.003hPa at 25°C
Relative density:	1.03	pH:	9-11 at 100g/L, 23°C
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

## Section 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions.

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#### 10.3. Possibility of hazardous reactions

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below.

#### 10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Flames.

## 10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong acids.

## 10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes.

## Section 11: Toxicological information

## 11.1. Information on toxicological effects

### **Toxicity values:**

Route	Species	Test	Value	Units
ORAL	RAT	LD50	970	mg/kg

#### Hazardous ingredients:

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ORAL RAT LD50	970	mg/kg
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### Relevant hazards for product:

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Reproductive toxicity		Hazardous: calculated

#### Symptoms / routes of exposure

Section 12: Ecological inform	nation
Delayed / immediate effects:	Immediate effects can be expected after short-term exposure.
	cause coughing or wheezing.
Inhalation:	There may be shortness of breath with a burning sensation in the throat. Exposure may
	bleeding from the mouth or nose.
Ingestion:	Corrosive burns may appear around the lips. Blood may be vomited. There may be
Eye contact: Corneal burns may occur. May cause permanent damage.	
Skin contact:	Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

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### 12.1. Toxicity

#### **Ecotoxicity values:**

Species	Test	Value	Units
FISH	48H LC50	280	mg/l
Daphnia magna	48H EC50	341.5	mg/l
ALGAE	72H EC50	133	mg/l

#### Hazardous ingredients:

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ALGAE	72H EC50	133	mg/l
Daphnia magna	48H EC50	341.5	mg/l
FISH	48H LC50	280	mg/l

### 12.2. Persistence and degradability

## Persistence and degradability: Biodegradable.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential: No bioaccumulation potential.

#### 12.4. Mobility in soil

Mobility: No data available.

#### 12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Negligible ecotoxicity.

#### Section 13: Disposal considerations

#### 13.1. Waste treatment methods

Disposal operations: Transfer to a suitable container and arrange for collection by specialised disposal

company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

## Section 14: Transport information

14.1. UN number

UN number: UN3263

## 14.2. UN proper shipping name

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

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14.3. Transport hazard class(	es)
Transport class:	8
14.4. Packing group	
Packing group:	Ш
14.5. Environmental hazards	····
Environmentally hazardous:	No Marine pollutant: No
14.6. Special precautions for	-
	No special precautions.
Tunnel code:	
Transport category:	
Section 15: Regulatory inform	
15.1. Sofoty boolth and onvir	onmental regulations/legislation specific for the substance or mixture
Specific regulations:	This product does not contain substances of very high concern according to regulation
	(EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration
	limit of more than or equal to 0.1% (w/w).
15.2. Chemical Safety Assess	ment
Chemical safety assessment:	A chemical safety assessment has not been carried out for the substance or the mixture
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