

**MATERIAL SAFETY DATA SHEET**

Product Name: Imidazole

CAS No.: 288-32-4

Version: 0

**1. Identification**

**Product Code** : 90429  
**Company Name** : Advent Chembio Private Limited  
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**2. Composition/Information on Ingredients**

<b>Ingredient</b>	<b>CAS No</b>	<b>Percent</b>
IMIDAZOLE	288-32-4	90-100 %

**3. Hazards Identification**

**Emergency Overview** : DANGER! CORROSIVE. CAUSES BURNS TO ANY AREA OF CONTACT.  
HARMFUL IF SWALLOWED OR INHALED

**Saf-T-Data**

Health Rating : 3 - Severe  
Flammability Rating : 1 - Slight  
Reactivity Rating : 0 - None  
Contact Rating : 3 - Severe (Corrosive)

**Potential Health Effects**

**Inhalation** : Extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

**Ingestion** : Corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to death. Can cause sore throat, vomiting, diarrhea

**Skin Contact** : Corrosive. Symptoms of redness, pain, and severe burn can occur.

**Eye Contact** : Corrosive. Can cause blurred vision, redness, pain, severe tissue burns and eye damage. Can cause blindness.

**Chronic Exposure** : Chronic exposure may cause respiratory system effects. Chronic exposure may cause skin effects.

**Aggravation of Pre-existing Conditions** : Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the substance.

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**4. First Aid Measures**

- General information** : Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand. Show this safety data sheet to the doctor in attendance.
- Inhalation** : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** : If swallowed, **DO NOT INDUCE VOMITING**. Give large quantities of water. Never give anything by mouth to an unconscious person. Get medical attention immediately.
- Skin Contact** : Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean shoes before reuse. **DO NOT APPLY GREASES OR OINTMENTS**
- Eye contact** : Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

**5. Fire fighting measures**

- Fire** : Flash point: 146C (295F) CC
- Explosion** : Above the flash point, explosive vapor-air mixtures may be formed.
- Fire Extinguishing Media** : Water spray, dry chemical, alcohol foam, or carbon dioxide.
- Special Information** : In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode..

**6. Accidental Release Measures**

- Personal precautions, protective equipment and emergency procedures** : Keep unauthorized personnel away. Keep upwind. Ventilate closed spaces before entering them. Avoid inhalation of dust. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
- Methods and material for containment and cleaning up** : Sweep up and place in a clearly labeled container for chemical waste.  
Clean surface thoroughly to remove residual contamination.
- Notification Procedures** : Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.
- Environmental precautions** : Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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**7. Handling and Storage**

- Precautions for safe handling** : Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage and moisture. Isolate from any source of heat or ignition. Avoid storage on wood floors. Separate from incompatibles, combustibles, organic or other readily oxidizable materials. Wear special protective equipment for maintenance break-in or where exposures may exceed established exposure levels. Wash hands, face, forearms and neck when exiting restricted areas. Shower, dispose of outer clothing, change to clean garments at the end of the day. Avoid cross-contamination of street clothes. Wash hands before eating and do not eat, drink, or smoke in workplace. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.
- Conditions for safe storage, including any incompatibilities** : Keep containers tightly closed. Store in cool, dry place. Store in a well-ventilated place.

**8. Exposure Controls Personal Protection**

- Control parameters**  
**Occupational exposure limits** : None established  
**Ventilation System** : A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.
- Personal Respirators (NIOSH Approved):** : For conditions of use where exposure to the dust or mist is apparent, a half-face dust/mist respirator may be worn. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.
- Skin Protection** : Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- Eye Protection:** : Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.
- Other** : Clothing contaminated with this material may be an increased fire hazard. Wash contaminated clothing as soon as possible.
- Respiratory protection** : In case of inadequate ventilation use suitable respirator.
- Hygiene measures** : Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower.

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## 9. Physical and Chemical Properties

Appearance	:	White flakes
Odor	:	Odorless.
pH	:	No information found.
Melting point/freezing point	:	89 - 91C (192 - 196F)
Initial boiling point and boiling range	:	256C (493F)
Flash Point	:	No information found.
Vapor pressure	:	No information found.
Vapor density	:	No information found.
Relative density	:	0.60
Solubility in water	:	Soluble in water.
Solubility (other)	:	No data available.
Formula	:	C3H4N2
Molecular Weight	:	68.08 g/mol

## 10. Stability and Reactivity

<b>Stability</b>	:	Stable under ordinary conditions of use and storage.
<b>Hazardous Decomposition Products</b>	:	Burning may produce carbon monoxide, carbon dioxide, nitrogen oxides
<b>Hazardous Polymerization</b>	:	This substance does not polymerize.
<b>Incompatibilities:</b>	:	Strong oxidizers.
<b>Conditions to Avoid:</b>	:	Heat, flames, ignition sources and incompatibles.

## 11. Toxicological Information

### Toxicological Data:

Imidazole: Oral rat LD50: 220 mg/Kg. Investigated as a mutagen, reproductive effector.

Cancer Lists			
Ingredient	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans DIOXANE	US. National Toxicology Program (NTP) Report on Carcinogens DIOXANE	US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
Imidazole (288-32-4)	No	No	None

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**12. Ecological Information**

**Ecotoxicity**

**Acute hazards to the aquatic environment :**

**Fish Product** : No data available.

**Aquatic invertebrates Product** : No data available.

**Chronic hazards to the aquatic environment :**

**Fish Product** : No data available.

**Aquatic invertebrates Product** : No data available.

**Toxicity to Aquatic Plants Product:** : No data available.

**Persistence and degradability**

**Biodegradation Product** : No data available.

**BOD/COD ratio Product** : No data available.

**Bioaccumulative potential**

**Bioconcentration factor (BCF) Product** : No data available on bioaccumulation.

**Product**

**Partition coefficient n-octanol / water (log Kow) Product** : No data available.

**Mobility in soil** : No data available.

**Other adverse effects** : No data available.

**13. Disposal consideration**

**Disposal instructions** : Discharge, treatment, or disposal may be subject to national, state, or local laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Contaminated packaging** : Since emptied containers retain product residue, follow label warnings even after container is emptied.

**14. Transport Information**

	UN No.	UN proper shipping name	Hazard Class(es)	Packaging group	Marine Pollutant
<b>DOT</b>	UN3263	IMIDAZOLE	8	III	No
<b>IMDG</b>	UN3263	IMIDAZOLE	8	III	No
<b>IATA</b>	UN3263	IMIDAZOLE	8	III	No

**MATERIAL SAFETY DATA SHEET****Product Name:** Imidazole**CAS No.:** 288-32-4**Version:** 0**15. Regulatory Information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Safety, health and environmental regulations/legislation specific for the substance or mixture  
No Data Available.

**16. Other Information****Issue Date :**01/08/2014**Version : 0**

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