

Safety Data Sheet

Version 3.10 Revised: 2016-05-02

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Imidazole

Other means of identification

 Product Code(s)
 A2901

 UN/ID no.
 3263

Synonyms Glyoxaline ; 1,3-Diaza-2,4-cyclopentadiene ;

Product Use For Laboratory Research Use Only.

Supplier/Manufacturer

Biomatik Corporation 9-140 McGovern Dr.

Cambridge, Ontario N3H 4R7

Canada

Telephone Number 1-519-489-7195
E-mail Address info@biomatik.com

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity - Oral	Category 4
Serious Eye Damage/Eye Irritation	Category 1
Reproductive toxicity	Category 1B

Label elements

Emergency Overview

Danger

Hazard statements

H302 - Harmful if swallowed

H318 - Causes serious eye damage

H360 - May damage fertility or the unborn child



Appearance White to slight yellow Physical State Solid Odor Naphthalenic Stale

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not regulated

Other Information

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms Glyoxaline, 1,3-Diaza-2,4-cyclopentadiene.

Chemical Name	CAS-No	EC No.	Weight %	Trade Secret
Imidazole	288-32-4	206-019-2	95-100	Not applicable

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO₂, water spray or alcohol-resistant foam.

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion

Carbon oxides. Emits toxic fumes.

Products

Explosion Data

Sensitivity to Mechanical Impact None.
Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Use personal

protective equipment. Avoid dust formation.

Environmental Precautions

Environmental Precautions See Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Air and moisture sensitive. Keep containers tightly closed in a dry, cool and well-ventilated

place.

Incompatible Products Strong oxidizing agents. Acids. Anhydrides.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Imidazole	=	-	-

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems. Individual protection measures, such as personal protective equipment

Eye/Face Protection Safety glasses with side-shields. Avoid contact with eyes.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene MeasuresHandle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Solid

AppearanceWhite to slight yellowOdorNaphthalenic StaleColorNo information availableOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

pH No information available

Melting point/freezing point

Boiling Point/Range No information available

Flash Point (High in °C) 145 °C

Evaporation Rate No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available **Vapor Density** No information available **Specific Gravity** No information available Water Solubility No information available Solubility in other solvents No information available **Partition coefficient** No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available **Dynamic viscosity** No information available **Explosive Properties** No information available **Oxidizing Properties** No information available

Other Information

Softening PointNo information availableMolecular WeightNo information availableVOC ContentNo information availableDensityNo information availableBulk DensityNo information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Protect from air, light and moisture. Protect from moisture.

Incompatible Materials

Strong oxidizing agents. Acids. Anhydrides.

Hazardous Decomposition Products

Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Ammonia.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information Toxic by inhalation and if swallowed Causes skin, eye and respiratory tract irritation

Inhalation There is no data available for this product.

Eye Contact There is no data available for this product.

Skin Contact There is no data available for this product.

Ingestion There is no data available for this product.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Imidazole	= 220 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Imidazole	-	-	-	-

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
No information available.
No information available.

Chronic Toxicity Suspected teratogen. Contains a known or suspected reproductive toxin.

Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

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Chemical Name	Algae/aquatic plants	Toxicity to Fish	Crustacea
Imidazole	82: 96 h Desmodesmus subspicatus	280: 48 h Leuciscus idus mg/L	341.5: 48 h Daphnia magna mg/L
mg/L EC50 130: 72 h		LC50 static	ÉC50
	Desmodesmus subspicatus mg/L		
	EC50		

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

Catalog No. A2901 Imidazole

No information available.

Chemical Name	Partition coefficient
Imidazole	-0.02

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
Imidazole	-	-	-	-

Chemical Name	California Hazardous Waste Status
Imidazole	-

14. TRANSPORTINFORMATION

DOT

UN/ID no. 3263

Proper shipping name Corrosive Solid, Basic, Organic, N.O.S. (Containing Imidazole)

Hazard Class 8
Packing Group III

IATA

UN/ID no. 3263

Proper shipping name Corrosive Solid, Basic, Organic, N.O.S. (Containing Imidazole)

Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA Complies **DSL/NDSL** Complies Complies **EINECS/ELINCS** Complies **ENCS** Complies **IECSC** Complies **KECL PICCS** Complies **AICS** Complies

<u>Legend</u>

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Component	SARA 313 - Threshold Values %
Imidazole	-

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	Yes
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Imidazole	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Imidazole	-	-	-

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name	California Prop. 65
Imidazole	-

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Imidazole	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Disclaimer

The information provided on this MSDS 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.

End of Safety Data Sheet