



MATERIAL SAFETY DATA SHEET

NFPA HMIS Personal Protective Equipment



Health Hazard	3
Fire Hazard	1
Reactivity	0



See Section 8.

1. CHEMICAL PRODUCT A	ND COMPANY IDENTIFICATION					
Product code:	M2394					
Product Name:	2-METHYLIMIDAZOLE					
Chemical Name:	Imidazole, 2-methyl-					
Synonyms:	No information available					
Recommended use:	Dyes.					
CAS #:	693-98-1					
RTECS #	NI7175000					
Formula:	C4-H6-N2					
CI#:	Not available					
Supplier:	Spectrum Chemicals and Laboratory Products, Inc.					
	14422 South San Pedro St.					
	Gardena, CA 90248					
	(310) 516-8000					
Order Online At:	https://www.spectrumchemical.com					
Emergency Telephone Number:	CHEMTREC: 1-800-424-9300					
Contact Person:	Regina Wachenheim (East Coast)					
Contact Person:	Martin LaBenz (West Coast)					

2. HAZARDS IDENTIFICATION

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 1 / 11

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

DANGER CORROSIVE!

The product causes burns of eyes, skin and mucous membranes

Odor:Physical state:Appearance:Color:No information available.Solid.Powder. Crystalline powder.White. Light yellow.

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication

Standard (29 CFR 1910.1200)

POTENTIAL HEALTH EFFECTS

Principal Routes of Exposure:

Skin. Inhalation. Ingestion.

Acute Potential Health Effects:

Skin Contact:

Causes skin burns.

Eye Contact:

Causes eye burns.

Inhalation:

Causes chemical burns to the respiratory tract.

Ingestion:

Causes burns. Can burn mouth, throat, and stomach. May cause central nervous system effects. May affect the blood. It may affect the thyroid. May affect the liver.

Chronic Potential Health Effects:

Component Carcinogen Status:

2-Methylimidazole 693-98-1 (100) Group 2B - Possibly carcinogenic to humans by IARC

Target Organs: No information available

Mutagenic Effects: No information available

Teratogenic Effects: No information available

Aggravated Medical Conditions: No information available

See Section 11 for additional Toxicological Information

POTENTIAL ENVIRONMENTAL EFFECTS

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
2-Methylimidazole	693-98-1	100

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 2 / 11

4. FIRST AID MEASURES

General Advice: Poison information centres in each State capital city can provide additional

assistance for scheduled poisons (13 1126). Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves. First

aider needs to protect himself.

Skin Contact: Wash off immediately with soap and plenty of water. Continue flushing with plenty of

water for at least 15 minutes. Remove all contaminated clothes and shoes. Immediate medical attention is required. Call a physician immediately.

Eye Contact: Flush eye with water for 15 minutes. Immediate medical attention is required. Call a

physician immediately.

Inhalation: Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. WARNING! It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled or ingested material is toxic, infectious or corrosive. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with the aid of a pocket mask

equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Call a physician immediately.

Ingestion: Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person. Immediate medical attention is required. Call a physician or

Poison Control Centre immediately.

Notes to Physician: Treat symptomatically

5. FIRE-FIGHTING MEASURES

Flammable Properties

Flashpoint (°C/°F):	No information available.

Flash Point Tested according to:

Not applicable

Lower Explosion Limit (%):	No information available
Upper Explosion Limit (%):	No information available

Autoignition Temperature (°C/°F): No information available

Suitable Extinguishing Media: Carbon dioxide (CO2). Dry chemical. Water spray mist or

foam. Alcohol-resistant foam.

Unsuitable Extinguishing Media: No information available.

Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

Specific hazards:May be combustible at high temperatures

When heated to decompositon it may produce corrosive

and/or toxic fumes

Fire may produce irritating, corrosive and/or toxic gases

Special Protective Equipment for Firefighters: As in any fire, wear self-contained breathing apparatus

pressure-demand, MSHA/NIOSH (approved or equivalent)

and full protective gear

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Specific Methods:

Water mist may be used to cool closed containers. For larger fires, use water spray or fog. Cool containers with flooding quantities of water until well after fire is out. Dike fire-control water for later disposal; do not scatter the material.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Remove all sources of ignition. Avoid dust formation.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Should not be released into the environment. Do not let product enter drains. Do not flush into surface water or sanitary sewer system. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Cleaning Up:

Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.

7. HANDLING AND STORAGE

Handling

Technical Measures/Precautions:

Use only in area provided with appropriate exhaust ventilation. Keep away from incompatible materials.

Safe Handling Advice:

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Keep away from heat and sources of ignition. Do not ingest. Do not breathe vapours/dust. Handle in accordance with good industrial hygiene and safety practice.

Storage

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store in a segrated and approved area. Store away from incompatible materials.

Incompatible Materials:

Strong oxidizing agents. Acids. Acid chlorides. Acid anhydrides.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protective Equipment

Eye protection: Face-shield.

Skin and body protection: Chemical resistant protective suit. Gloves.

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Respiratory protection: Wear respirator with dust filter...

Hygiene measures: Avoid contact with skin, eyes and clothing. When using, do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the product.

National occupational exposure limits

United States

U.S Occupational Exposure Limits: Not determined

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
	None	None	None	None
2-Methylimidazole - 693-98-1				

Canada

Canada Occupational Exposure Limits: Not determined

Components	Alberta	British Columbia	Ontario	Quebec
2-Methylimidazole	None	None	None	None
693-98-1				

Australia and Mexico

Occupational Exposure Limits for Australia and Mexico: Not determined

Components	Australia	Mexico
2-Methylimidazole	None	None
693-98-1		

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Appearance: Color:

Solid. Powder. Crystalline powder. White. Light yellow.

Odor: Molecular/Formula weight: Taste

No information available. 82.10 No information available

Flash point (°C): Lower Explosion Limit (%): Upper Explosion Limit (%): No data available No information available

Autoignition Temperature (°C/°F): Melting point/range(°C/°F): Boiling point/range(°C/°F):

No information available 144 °C/291.2 °F 267 °C/512.6 °F

pH: Decomposition temperature(°C/°F): Specific gravity:

Density (g/cm3): Vapor pressure @ 20°C (kPa):

No information available

No information available

No information available

Evaporation rate: Vapor density: VOC content (g/L):

No information available
No information available
No information available

Odor threshold (ppm): Partition coefficient Miscibility:

No information available (n-octanol/water): No information available 0.24

Solubility:

Very soluble in Ethanol Very soluble in water

Solubility in Water: 80900 mg/l @ 25

°C; 780 g/l @ 20 °C

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10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions

Conditions to avoid: Heat. Avoid dust formation. Dust may form explosive mixture in air. Fine dust

dispersed in air in sufficient concentrations, and in the presence of an ignition source

is a potential dust explosion hazard.

Incompatible Materials: Strong oxidizing agents. Acids. Acid chlorides. Acid anhydrides.

Hazardous decomposition

products:

When heated to decomposition it emits very toxic fumes. Carbon monoxide. Carbon

dioxide. Nitrogen oxides (NOx).

Possibility of Hazardous

Reactions:

No information available

Polymerization: Hazardous polymerisation does not occur

Corrosivity: No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

2-Methylimidazole - 693-98-1

LD50/oral/rat = No information available

LD50/oral/mouse = 1400 mg/kg Oral LD50 Mouse

LD50/dermal/rat =No information available

LD50/dermal/rabbit = No information available

LC50/inhalation/rat = No information available

LC50/inhalation/mouse = No infomation available

Other LD50 or LC50information =

No information available

Product Information

LC50/inhalation/rat No information available

LC50/Inhalation/mouse No information available

LD50/dermal/rabbit No information available

LD50/dermal/rat No information available

LD50/oral/mouse = 1400mg/kg

LD50/oral/rat = No information available

Local Effects

Skin irritation: Severe skin irritation. Causes burns.

Eye irritation: Severe eye irritation. Causes burns.

Inhalation: Causes chemical burns to the respiratory tract.

Ingestion: Causes digestive or gastrointestinal tract burns. May affect behavior/central nervous

system (convulsions).

Sensitization: No information available

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Chronic Toxicity

Chronic Toxicity Prolonged or repeated ingestion may cause weight loss. Prolonged or repeated

ingestion may affect the liver. Prolonged or repeated ingestion may affect the thyroid and result in thyroid hyperfunction.. Prolonged or repeated ingestion may affect the blood (normocytic anemia). Prolonged or repeated ingestion may affect the spleen.

Carcinogenic effects: Not considered carcinogenic

Components	NTP	IARC	OSHA HCS - Carcinogens	•	Australia - Prohibited Carcinogenic Substances	Australia - Notifiable Carcinogenic Substances
2-Methylimidazole		Group 2B - Monograph 101 [2012]	Present	Not listed	Not listed	Not listed

Mutagenic Effects: No information available

Reproductive Effects: May cause adverse reproductive effects based on animal data

Experiments have shown reproductive toxicity effects on laboratory animals

No information on reproductive toxicity effects on humans was found

Teratogenic Effects: No information available

Target Organs: No information available

12. ECOLOGICAL INFORMATION

ECOTOXICITY

Toxicity to terrestrial and aquatic plants and animals: Information given is based on data on the components and

the ecotoxicology of similar products

Ecotoxicity effects:

Aquatic toxicity:

2-Methylimidazole - 693-98-1

Freshwater Fish Species Data: 267 - 307 mg/L LC50 Pimephales promelas 96 h flow-through 1

Mobility: No information available

Persistence and degradability: No information available

Bioaccumulative potential: No information available

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
2-Methylimidazole	None	None	None	None

14. TRANSPORT INFORMATION

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 7 / 11

DOT

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: |||

Subsidiary Risk:Not applicableMarine PollutantNo data available

ERG No: 154

DOT RQ (lbs): No information available

Symbol(s): G

TDG (Canada)

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: 8

Subsidiary Risk:No information availableDescription:No information available

ADR

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: |||

Subsidiary Risk:No information availableClassification Code:No information availableDescription:No information availableCEFIC Tremcard No:No information available

IMO / IMDG

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: |||

Subsidiary Risk:No information availableDescription:No information availableIMDG Page:No information availableMarine PollutantNo information available

EMS: F-A

MFAG: No information available Maximum Quantity: No information available

RID

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: III
Subsidiary Risk: 8

Classification Code: No information available Description: No information available

ICAO

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: III

Subsidiary Risk: No information available **Description:** No information available

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 8 / 11

IATA

UN-No: UN3263

Proper Shipping Name: Corrosive solid, basic, organic, n.o.s.

Hazard Class: 8
Packing Group: III

Subsidiary Risk: No information available

ERG Code: 8L

Description: No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	Philippines (PICCS)	KOREA KECL	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
2-Methylimidazole	Present	Present	Present KE- 24299	Present (5)- 382	Present	Present	Present 211-765-7

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

WARNING: This product contains a chemical known to the State of California to cause cancer. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity	Male Reproductive	Female Reproductive
			Toxicity	Toxicity:
2-Methylimidazole	carcinogen	Not Listed	Not Listed	Not Listed

CERCLA/SARA

	Substances and their	Hazardous	Section 302 Extremely Hazardous Substances and RQs	Chemical Category	Section 313 - Reporting de minimis
2-Methylimidazole	None	None	None	None	None

U.S. TSCA

•	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
2-Methylimidazole	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

E Corrosive material

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 9 / 11

Components	Canada (DSL)	Canada (NDSL)
2-Methylimidazole	Present	Not Listed

Components	0	CEPA - 2010 Greenhouse Gases Subject to Manditory Reporting
2-Methylimidazole	Not listed	Not listed

EU Classification

R-phrase(s)

R34 - Causes burns.

R22 - Harmful if swallowed.

S -phrase(s)

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S45 - In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection.

Components	Classification	Concentration Limits:	Safety Phrases
2-Methylimidazole		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

C - Corrosive. Xn - Harmful.





16. OTHER INFORMATION

The MSDS format complies with ANSI Z400.1/Z129.1-2010 standards.

Preparation Date: 13-Dec-2013

Reason for revision: Not applicable

Prepared by: Sonia Owen

Literature reference: No information available

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 10 / 11

All chemicals may pose unknown hazards and should be used with caution. This Material Safety Data Sheet (MSDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this MSDS. The physical properties reported in this MSDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this MSDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

Product code: M2394 Product name: 2-METHYLIMIDAZOLE 11 / 11