

2-Methyl Imidazole CAS No 693-98-1			MATERIAL SAFETY DATA SHEET
			SDS/MSDS
SEC	TION 1: Identification of the time of time of the time of time of the time of the time of the time of time	he substance/mixture a	nd of the company/undertaking
1.1	Product identifiers		
	Product name	: 2-Methyl Imida	azole
	CAS-No.	: 693-98-1	
1.2	Relevant identified uses of	of the substance or mix	ture and uses advised against
	Identified uses	: Laboratory chemica	als, Industrial & for professional use only.
1.3	Details of the supplier of		
	Company	: Pallav Chemicals & 253 Shiv Shakti Ir	Solvents Pvt. Ltd idustrial Estate, Opp Mittal Estate
			d, Andheri (E), Mumbai - 400050
		INDIA	
	Telephone Email	: +91 22 4928 4000 : sales@pallavchem	
		<b>_</b> :	
1.4	Emergency telephone nu		(0:00-m, 0:00 mm) [Office hours]
	Emergency Phone #	: +91 22 4928 4000	(9:00am - 6:00 pm) [Office hours]
SEC	TION 2: Hazards identifica	ation	
2.1	Classification of the subs	stance or mixture	
	Classification according		
	1272/2008 Acute toxicity, Skin corrosion (Category		
	Carcinogenicity (Category	y 2), H351	
	Reproductive toxicity (Ca	0,00	
	For the full text of the H-S	Statements mentioned in t	his Section, see Section 16.
	Classification according T Toxic	g to EU Directives 67/54 R22, R34,	
	For the full text of the R-p	phrases mentioned in this	Section, see Section 16.
2.2	Label elements		
	Labelling according Real Pictogram	gulation (EC) No 1272/2	008
	Signal word	Danger	

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Hazard statement(s) H302 H314 H351 H360	Harmful if swallowed. Causes severe skin burns and eye damage. Suspected of causing cancer. May damage fertility or the unborn child.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician. IF
P305 + P351 + P338	IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
Supplemental	nono
Hazard Statements	none
Restricted to professional users.	

#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Substances			
Synonyms	: 2-Methylglyoxaline		
Formula	: C4H6N2		
Molecular weight	: 82,11 g/mol		
CAS-No.	: 693-98-1		
EC-No.	: 211-765-7		
Hazardous ingredients according to Regulation (EC) No 1272/2008			
Component		Classification	Concentration
2-Methylimidazole			
CAS-No.	693-98-1	Acute Tox. 4; Skin Corr. 1C;	<= 100 %
EC-No.	211-765-7	Carc. 2; Repr. 1B; H302,	
		H314, H351, H360	
Hazardous ingredients according to Directive 1999/45/EC			
Component		Classification	Concentration
2-Methylimidazole			
CAS-No.	693-98-1	T, R22 - R34 - R40 - R61	<= 100 %
EC-No.	211-765-7		

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section

#### 16 SECTION 4: First aid measures

#### 4.1 Description of first aid measures

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed No data available

#### **SECTION 5: Firefighting measures**

- 5.1 Extinguishing media
  - **Suitable extinguishing media** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture Carbon oxides, Nitrogen oxides (NOx)
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information No data available

#### **SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures** Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

#### **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

- **6.3** Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
- **6.4 Reference to other sections** For disposal see section 13.

#### **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

#### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### **SECTION 8: Exposure controls/personal protection**

## 8.1 Control parameters

#### Components with workplace control parameters

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

#### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### **Skin protection**

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.

#### **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### **Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

a)	Appearance	Form: powder
		Colour: white
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	рН	No data available
e)	Melting point/freezing point	Melting point/range: 142 - 143 °C - lit.
f)	Initial boiling point and boiling range	267 - 268 °C - lit.
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	No data available
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	0,011 hPa at 50 °C - OECD Test Guideline 1
I)	Vapour density	No data available

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m)	Relative density	1,09 g/cm3 at 20 °C - OECD Test Guideline 109
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- n) Water solubility 267 g/l at 20 °C
- Partition coefficient: n- log Pow: 0,22 at 25 °C OECD Test Guideline 107 octanol/water
- p) Auto-ignition No data available temperature
- q) Decomposition No data available temperature
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

# 9.2 Other safety information

No data available

# SECTION 10: Stability and reactivity

# 10.1 Reactivity

No data available

- **10.2 Chemical stability** Stable under recommended storage conditions.
- **10.3 Possibility of hazardous reactions** No data available
- **10.4 Conditions to avoid** No data available

# **10.5 Incompatible materials** Strong oxidizing agents, acids, Acid chlorides, Acid anhydrides

# **10.6 Hazardous decomposition products** Other decomposition products - No data available In the event of fire: see section 5

# **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

#### Acute toxicity

LD50 Oral - Rat - male and female - 1.500 mg/kg (OECD Test Guideline 401)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg (OECD Test Guideline 402)

# Skin corrosion/irritation

Skin - Rabbit Result: Causes burns. (OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit Result: Corrosive (OECD Test Guideline 405)

#### Respiratory or skin sensitisation

- Mouse Result: Does not cause skin sensitisation. (OECD Test Guideline 429)

#### Germ cell mutagenicity Ames test

Salmonella typhimurium Result: negative OECD Test Guideline 474 Mouse - male

Result: negative

# Carcinogenicity

Limited evidence of a carcinogenic effect.

IARC: 2B - Group 2B: Possibly carcinogenic to humans (2-Methylimidazole)

#### **Reproductive toxicity**

Presumed human reproductive toxicant

# Specific target organ toxicity - single exposure

No data available

#### Specific target organ toxicity - repeated exposure No data available

Aspiration hazard

# No data available

# Additional Information

Repeated dose toxicity - Rat - male and female - Lowest observed adverse effect level - 100 mg/kg RTECS: NI7175000

burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

12.2

Toxicity to fish	static test LC50 - Pimephales promelas (fathead minnow) - 286 mg/l - 96 h	
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 225,31 mg/l  - 48 h	
Toxicity to algae	static test EC50 - Desmodesmus subspicatus (Scenedesmus subspicatus) - 256,3 mg/l - 72 h	
Toxicity to bacteria	EC50 - Pseudomonas putida - 459,9 mg/l  - 7 h (DIN 38 412 Part 8)	
Persistence and degradability		
Biodegradability	aerobic - Exposure time 28 d	

Result: 67 % - Readily biodegradable (OECD Test Guideline 301B)

**12.3 Bioaccumulative potential** No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# 12.6 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

### Product

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

#### **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID:	3259	IMDG: 3259	IATA: 3259
14.2 UN proper ADR/RID: IMDG: IATA:	AMINES, SOLID, CORF AMINES, SOLID, COF	ROSIVE, N.O.S. (2-Methylimidazole) RROSIVE, N.O.S. (2-Methylimidazole e, n.o.s. (2-Methylimidazole)	e)
14.3 Transport I ADR/RID:	• •	IMDG: 8	IATA: 8
14.4 Packaging ADR/RID:	• •	IMDG: II	IATA: II
14.5 Environme ADR/RID:		IMDG Marine pollutant: no	IATA: no
14.6 Special pre No data av	ecautions for user		

#### **SECTION 15: Regulatory information**

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

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

# **SECTION 16: Other information**

# Full text of H-Statements referred to under sections 2 and 3.

Acute Tox.	Acute toxicity
Carc.	Carcinogenicity
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H351	Suspected of causing cancer.
H360	May damage fertility or the unborn child.
Repr.	Reproductive toxicity
Skin Corr.	Skin corrosion

#### Full text of R-phrases referred to under sections 2 and 3

Т	Toxic
R22	Harmful if swallowed.
R34	Causes burns.
R40	Limited evidence of a carcinogenic effect.
R61	May cause harm to the unborn child.

#### **Further information**

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Pallav Chemicals & Solvents Pvt. Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.pallavchemicals.com for additional terms and conditions of sale.