


SAFETY DATA SHEET

2-METHYL IMIDAZOLE

SECTION 1: Identification of the substance/mixture and of the company/undertaking Trade name:

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| 1.1 Product identifier: | |
| CAS Number: | 693-98-1 |
| EC number: | 211-765-7 |
| 1.2 SYNONYMS: | <ul style="list-style-type: none"> • 2-Methyl-1H-imidazole • 2-Methylglyoxaline • 2MI |

SECTION 2: Hazards identification:

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| 2.1 Classification of the substance or mixture: | Classification according to Regulation (EC) No 1272/2008 The substance is classified according to the CLP regulation. |
| 2.2 Label elements: | Labelling according to Regulation (EC) No 1272/2008 Acute toxicity, oral (Category 4) Skin corrosion, (Category 1C) Serious eye damage, (Category 1) Carcinogenicity, (Category 2) Reproductive toxicity, (Category 1B) |
| Hazard Pictograms: |  |
| Signal Word: | Danger |
| Hazard statements: | H302: Harmful if swallowed. H314: Causes severe skin burns and eye damage. H351: Suspected of causing cancer. H360Df: May damage the unborn child. Suspected of damaging fertility. |
| Precautionary Statements: | P260: Do not breathe dust. |

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| | <p>P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.</p> <p>P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.</p> <p>P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.</p> <p>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P405: Store locked up.</p> <p>P501: Dispose of contents/ container to an approved waste disposal plant.</p> |
| 2.3 Other hazards: | |
| Inhalation: | may cause respiratory tract irritation, coughing, dizziness, and, with prolonged exposure, potential damage to the lungs. |
| Ingestion: | may cause gastrointestinal irritation, nausea, vomiting, abdominal pain, and may be harmful if swallowed. |
| Skin Contact: | may cause irritation, redness, and prolonged exposure can lead to dryness or dermatitis. |
| Eye contact: | may cause irritation, redness, tearing, and a burning sensation. |
| Chronic Exposure: | may cause liver, kidney, or thyroid effects, and prolonged or repeated contact may lead to skin sensitization or other systemic toxicity. |

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| Aggravation of pre-existing conditions: | may aggravate pre-existing conditions involving the skin, respiratory system, liver, kidneys, or thyroid gland. |
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SECTION 3: Composition/information on ingredients

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| 3.1 Chemical characterisation: | Substances |
| CAS No: | Description: 693-98-1 2-METHYLIMIDAZOLE |
| Identification number(s): | EC number: 211-765-7 |

SECTION 4: First aid measures

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| 4.1 Description of first aid measures | |
| General information: | |
| After inhalation: | If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| After skin contact: | Remove contaminated clothing immediately. Wash with plenty of water. Consult a physician. |
| After eye contact: | Immediately flush eyes with plenty of water for at least 15 minutes. consult a physician. |
| After swallowing: | Rinse mouth with water. Immediately after ingestion. If conscious, make victim drink two glasses at most immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting. Consult a physician. |
| 4.2 Most important symptoms and effects, both acute and delayed: | The most important symptoms and effects of 2-methylimidazole, both acute and delayed, include |

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| | irritation of the eyes, skin, and respiratory tract; gastrointestinal discomfort if ingested; and with prolonged or repeated exposure, potential damage to the liver, kidneys, or thyroid, as well as possible skin sensitization. |
| 4.3 Indication of any immediate medical attention and special treatment needed: | Treat symptomatically. |

SECTION 5: Firefighting measures

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| 5.1 Extinguishing media: | Carbon dioxide. Water spray. Alcohol-resistant foam. |
| 5.2 Special hazards arising from the substance or mixture: | Carbon oxides, Nitrogen oxides |
| 5.3 Advice for firefighters: | Wear fully protective suit, safety glasses and respiratory device. Cool tanks/drums with water spray/remove them into safety. |
| 5.4 further information: | no data available |

SECTION 6: Accidental release measures

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| 6.1 Personal precautions, protective equipment and emergency procedures: | Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Avoid dust accumulation. Seek medical attention. |
| 6.2 Environmental precautions: | Do not enter this chemical into drains. |
| 6.3 Methods and material for containment and cleaning up: | Take up spill into absorbent material, e.g.: sand, earth, vermiculite, powdered limestone. |

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| | Scoop absorbed substance into closing containers. Spill must not return in its original container. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |
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SECTION 7: Handling and storage

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| 7.1 Precautions for safe handling: | For use in are with adequate ventilation. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material Do not use in confined spaces. Electrostatic discharge protection. Minimize dust generation and accumulation. Avoid ingestion and inhalation. Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance. |
| 7.2 Conditions for safe storage, including any incompatibilities: | Store in original containers. Keep containers securely sealed Store in a cool, dry, well-ventilated area. Store away from incompatible materials and foodstuff containers. Protect containers against physical damage and check regularly for leaks. Store in a dry and dark area. |
| Requirements to be met by storerooms and receptacles: | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| 7.3 Specific end uses: | no data available |

SECTION 8: Exposure controls/personal protection

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| 8.1 Control parameters | |
| Additional information about design of technical facilities: | A system of local and general exhaust is recommended. |
| 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: | Dust respirator, protective masks, wearing anti chemical gloves, rubber gloves, etc. |
| General protective and hygienic measures: | Eyes, body and hand protection, maintain indoor air unobstructed. Wear protective equipment. |
| | Respiratory protection: Required. |
| Protection of hands: | 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. Wash and dry hands. |
| | Eye protection: Required |
| Protection of Body: | Complete suit protecting against chemicals, Flame retardant antistatic protective clothing. |

SECTION 9: Physical and chemical properties

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| 9.1 Information on basic physical and chemical properties General Information | |
| Appearance: Form: | Crystalline solid |
| Colour: | White to off-white |
| Odour: | Slight amine-like |
| pH-value: | 10 |

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| Melting point/Melting range: | 142°C |
| Boiling point/Boiling range: | 267°C |
| Flammability (solid, gaseous): | Not easily flammable |
| Ignition temperature: | 470°C |
| Decomposition temperature: | 250°C |
| Self-igniting: | None |
| Flash point: | 155°C |
| Danger of explosion: | None |
| Explosion limits: Lower: | Not determined |
| Explosion limits: Upper: | Not determined |
| Vapour pressure: | 0.01 hPa at 20 °C |
| Density at 20 °C: | 1.03 g/cm ³ |
| Relative density: | 1.03 |
| Vapour density: | No data available |
| Evaporation rate: | Not applicable |
| Solubility in / Miscibility with- water at 20 °C: | Fully miscible |
| Partition coefficient:(n- octanol/water) | -0.83 |
| Viscosity: | Not applicable |

SECTION 10: Stability and reactivity

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| 10.1 Reactivity | No hazardous reaction known. |
| 10.2 Chemical stability | This chemical is stable under storage conditions. |
| 10.3 Possibility of hazardous reactions | May react with strong oxidizing agents, generating heat and possibly hazardous by-products. No polymerization is expected. |
| 10.4 Conditions to avoid | Excessive heat, open flames, sparks, air, moisture |
| 10.5 Incompatible materials | Strong oxidizing agents, strong acids and acid chlorides |
| 10.6 Hazardous decomposition products | Carbon monoxide, carbon dioxide, nitrogen oxides. |

SECTION 11: Toxicological information

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| 11.1 Information on toxicological effects | |
| Acute Toxicity: | LD50 (Oral, Rat): 1.500 mg/kg LD50 (Dermal, Rabbit): 2.000 mg/kg LC50 (Inhalation Rat): No data available |
| Skin corrosion/Irritation: | Corrosive |
| Serious eye damage/irritation: | Corrosive |
| Respiratory damage/irritation: | No data available |
| Ingestion: | No data available |
| Germ cell mutagenicity: | No data available |
| Carcinogenicity: | Suspected of causing cancer |
| Reproductive toxicity: | Suspected damage to fertility |
| Specific target organ toxicity - single exposure: | No data available |
| Specific target organ toxicity - repeated exposure: | No data available |
| Aspiration hazard: | No data available |
| Signs and Symptoms of Exposure: | Refer section 2.3 |
| 11.2 Additional toxicological information | |
| Biodegradability: | Readily biodegradable |

SECTION 12: Ecological information

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| 12.1 Toxicity Aquatic toxicity: | LC50(fish): 190 mg/l (96hr) EC50(daphnia): 100 mg/l (48hr) ErC50(algae): 256.3 mg/l (72hr) |
| 12.2 Persistence and degradability: | Readily Biodegradable |
| 12.3 Bioaccumulative potential: | Low bioaccumulative |
| 12.4 Mobility in soil: | High mobility |
| 12.5 Other adverse effects: | No data available |

SECTION 13: Disposal considerations

| 13.1 Waste treatment methods | |
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| Uncleaned packaging Recommendation: | dispose of in accordance with local hazardous waste regulations |
| Recommended cleansing agents: | Soap and water, isopropanol, Dilute sodium bicarbonate solution, sand. |

SECTION 14: Transport information

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| 14.1 UN-Number · ADR, ADN, IMDG, IATA: | 3259 |
| 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA: | 2-METHYLIMIDAZOLE |
| 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA : | 8 |
| 14.4 Packing group · ADR, IMDG, IATA: | 3 |
| 14.5 Environmental hazards: | None |
| 14.6 Special precautions for user: | Handle responsibly. |

SECTION 15: Regulatory information

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| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU | Directive 2012/18/EU, under that this substance is classified in listed substances as Corrosive substance. |
| Named dangerous substances: | This substance is not listed in the annex 1 to the directive. |
| 15.2 Chemical safety assessment: | Chemical assessment has not been carried out. |

SECTION 16: Other information

The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and limitations of our knowledge, this document is only for reference. Users should make their

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