

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date 06-Aug-2019

Version 3

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Product Name 2-Methylimidazole Reference Material
Product Code 138-17181
CAS RN 693-98-1
Pure substance/mixture Substance

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use For research purposes.
Uses advised against No information available

1.3. Details of the supplier of the safety data sheet**Manufacturer**

FUJIFILM Wako Pure Chemical Corporation
1-2 Doshomachi 3-Chome
Chuo-ku, Osaka 540-8605, Japan
Phone: +81 (0)6-6203-3741
Fax: +81 (0)6-6203-4640

Supplier

FUJIFILM Wako Chemicals GmbH
Fuggerstrasse 12, D-41468 Neuss, Germany
Phone: +49 (0)2131-311 158 Fax: +49 (0)2131-311 100
FUJIFILM Wako Chemicals USA, Inc.
1600 Bellwood Road, Richmond, VA 23237-1326, U.S.A.
Phone: +1 (0)804-271-7677 Fax: +1 (0)804-271-7791

For further information, please contact us.

1.4. Emergency telephone number

As above or toxicological information center
Emergency telephone +81-6-6203-3741

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity - Oral

Category 4

Skin corrosion/irritation

Category 1 B

2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Pictograms

Signal word Danger

Hazard Statements

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

Precautionary Statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P310 - Immediately call a POISON CENTER or doctor/physician

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
 P264 - Wash face, hands and any exposed skin thoroughly after handling
 P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

2.3. Other hazards

General Hazards No information available

SECTION 3: Composition/information on ingredients**3.1 Substances**

Chemical Name	EC No	CAS RN	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Methylimidazole	211-765-7	693-98-1	N/A	98.0	Acute Tox. 4: H302 Skin Corr. 1B: H314

3.3 Additional information

Impurities and/or Additives : Not applicable

SECTION 4: First aid measures**4.1. Description of first aid measures**

Inhalation	Remove to fresh air. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.
Symptoms	No information available.
Note to physicians	Treat symptomatically.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing media Water spray, carbon dioxide (CO₂), dry chemical, alcohol resistant foam.

Unsuitable Extinguishing media No information available

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

5.3. Advice for firefighters**Special protective equipment for fire-fighters**

Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.

5.4. Additional information

No information available

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling

For emergency responders	the gas. Work from windward, and retract the people downwind. Use personal protection recommended in Section 8.
6.2. Environmental precautions Environmental precautions	To be careful not discharged to the environment without being properly handled waste water contaminated. See Section 12 for additional ecological information.
6.3. Methods and material for containment and cleaning up	Sweep up and gather scattered particles, and collect it in an empty airtight container.
Methods for cleaning up 6.4. Reference to other sections	Take up mechanically, placing in appropriate containers for disposal. See Section 12: Ecological Information, Section 13 : Disposal considerations

SECTION 7: Handling and storage

7.1. Precautions for safe handling Protective measures	Ensure adequate ventilation, especially in confined areas. Avoid contact with strong oxidizing agents. Handle in accordance with good industrial hygiene and safety practice.
7.2. Conditions for safe storage, including any incompatibilities Storage conditions	Keep container protect from light tightly closed. Store in a cool (2-10 °C) place. Packed with an inert gas.
Packaging materials	Glass.
7.3. Specific end use(s) Risk Management Methods (RMM)	No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters Exposure limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
8.2. Exposure controls Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Skin and body protection	Suitable protective clothing.
Respiratory protection	Dust mask.
Environmental exposure controls	No information available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Color	white - pale yellow
Appearance	crystals - crystalline powder
Odor	No data available
pH	
Melting point / melting range	143-148 °C
Boiling point/boiling range	267-268 °C
Flash point	155 °C
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Flammability Limits in Air	
Upper	No data available
Lower	No data available
Vapor pressure	No data available
Vapor density	No data available
Specific Gravity / Density	No data available
Solubility(ies)	water , Ethanol , acetone , ethyl acetate : soluble .
Partition Coefficient (n-octanol/water)	No data available

Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Dynamic viscosity	No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No data available

10.2. Chemical stability

May be altered by light.

Explosion data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge none.

10.3. Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid Extremes of temperature and direct sunlight.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity Harmful if swallowed.

Skin corrosion/irritation Causes severe skin burns.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory or skin sensitization No information available

Germ cell mutagenicity No information available.

Carcinogenicity

Chemical Name	European Union	NTP	IARC
2-Methylimidazole	N/A		Group 2B

Reproductive toxicity No information available

STOT - single exposure No information available

STOT - repeated exposure No information available.

Aspiration hazard No information available.

CMR Effects No information available

To the best of our knowledge, chemical, physical and toxicological properties have not been fully investigated.

SECTION 12: Ecological information

12.1. Toxicity

Chemical Name	Fish	Crustacea	Algae/aquatic plants
2-Methylimidazole	LC50:Pimephales promelas 267 - 307 mg/L 96 h	EC50:Daphnia magna 200mg/L 48h	N/A

12.2. Persistence and degradability No information available.

12.3. Bioaccumulative potential No information available.

12.4. Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment No information available

12.6. Other adverse effects No information available

To the best of our knowledge, chemical, physical and toxicological properties have not been fully investigated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Method of disposing waste from residues / unused products Disposal should be in accordance with applicable regional, national and local laws and regulations.

Precautionary including method of disposing contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

SECTION 14: Transport information

IMDG

14.1 UN/ID No UN3263
 14.2 Proper shipping name Corrosive solid, basic, organic, n.o.s. (2-Methylimidazole)
 14.3 Hazard class 8
 14.4 Packing group II
 14.5 Marine pollutant Not applicable
 14.6 Special provisions Not regulated
 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No information available

IATA

14.1 UN/ID No UN3263
 14.2 Proper shipping name Corrosive solid, basic, organic, n.o.s. (2-Methylimidazole)
 14.3 Hazard class 8
 14.4 Packing group II
 14.5 Marine pollutant Not applicable
 14.6 Special provisions Not regulated

ADR/RID

14.1 UN/ID No UN3263
 14.2 Proper shipping name Corrosive solid, basic, organic, n.o.s. (2-Methylimidazole)
 14.3 Hazard class 8
 14.4 Packing group II
 14.5 Marine pollutant Not applicable
 14.6 Special provisions Not regulated
 Classification code C8

SECTION 15: Regulatory information

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

Water hazard class (WGK)

Chemical Name	WGK Classification (VwVwS)
2-Methylimidazole	class 2

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

International Inventories

TSCA	Listed
EINECS/ELINCS	Listed
DSL	Listed
NDSL	-
ENCS	Listed

15.2. Chemical safety assessment

No information available

SECTION 16: Other information

Revision Date 06-Aug-2019

Key or legend to abbreviations and acronyms used in the safety data sheet

No information available

Disclaimer

The information provided in this Material Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

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

End of Safety Data Sheet