

# **SAFETY DATA SHEET**

Creation Date 21-Jan-2010 Revision Date 09-Feb-2022 Revision Number 4

1. Identification

Product Name 1,2-Dimethylimidazole

Cat No. : B23544

**CAS No** 1739-84-0

Synonyms No information available

Recommended Use Laboratory chemicals.

**Uses advised against** Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

### Company

Alfa Aesar

Thermo Fisher Scientific Chemicals, Inc.

30 Bond Street

Ward Hill, MA 01835-8099

Tel: 800-343-0660 Fax: 800-322-4757 **Email:** tech@alfa.com

www.alfa.com

**Emergency Telephone Number** 

During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660.

After normal business hours, call Carechem 24 at (866) 928-0789.

# 2. Hazard(s) identification

#### Classification

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

Acute oral toxicity

Skin Corrosion/Irritation

Serious Eye Damage/Eye Irritation

Skin Sensitization

Category 1

Category 1

## Label Elements

### Signal Word

Danger

### **Hazard Statements**

Harmful if swallowed Causes skin irritation May cause an allergic skin reaction Causes serious eye damage



## **Precautionary Statements**

### Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

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

Avoid breathing dust/fume/gas/mist/vapors/spray

Contaminated work clothing should not be allowed out of the workplace

#### Skin

IF ON SKIN: Wash with plenty of soap and water

Take off contaminated clothing and wash before reuse

If skin irritation or rash occurs: Get medical advice/attention

#### **Eves**

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

#### Ingestion

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

Rinse mouth

#### **Disposal**

Dispose of contents/container to an approved waste disposal plant

### Hazards not otherwise classified (HNOC)

None identified

## 3. Composition/Information on Ingredients

Component	CAS No	Weight %	
1H-Imidazole, 1,2-dimethyl-	1739-84-0	>95	

#### 4. First-aid measures

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required.

**Skin Contact** Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.

**Inhalation** Remove to fresh air. Do not use mouth-to-mouth method if victim ingested or inhaled the

substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately if

symptoms occur. If not breathing, give artificial respiration.

**Ingestion** Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and

effects

Causes eye burns. May cause allergic skin reaction. Difficulty in breathing. Causes severe eye damage. Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle

#### 1,2-Dimethylimidazole

pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness,

nausea and vomiting
Treat symptomatically

**Notes to Physician** 

## 5. Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam. Water mist may

be used to cool closed containers.

Unsuitable Extinguishing Media No information available

**Flash Point** 93 °C / 199.4 °F

**Method -** No information available

Autoignition Temperature 480 °C / 896 °F

**Explosion Limits** 

Upper No data available
Lower No data available
Sensitivity to Mechanical Impact No information available
Sensitivity to Static Discharge No information available

#### **Specific Hazards Arising from the Chemical**

Combustible material. Containers may explode when heated.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO2). Nitrogen oxides (NOx).

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

#### NFPA

Health	Flammability	Instability	Physical hazards
3	2	0	N/A

## 6. Accidental release measures

**Personal Precautions** 

Remove all sources of ignition. Use personal protective equipment as required. Avoid dust formation. Take precautionary measures against static discharges.

**Environmental Precautions** 

Should not be released into the environment. See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Avoid release to the

environment. Collect spillage.

**Methods for Containment and Clean** Remove all sources of ignition. Sweep up and shovel into suitable containers for disposal. **Up**Avoid dust formation.

## 7. Handling and storage

Handling Wear personal protective equipment/face protection. Keep away from open flames, hot

surfaces and sources of ignition. Avoid dust formation. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Do not ingest. If swallowed then seek immediate medical

assistance.

Storage. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from

heat, sparks and flame. Keep at temperatures below 35°C. Keep containers tightly closed in a cool, well-ventilated place. Incompatible Materials. Strong oxidizing agents.

## 8. Exposure controls / personal protection

#### 1,2-Dimethylimidazole

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

limitsestablished by the region specific regulatory bodies.

Engineering Measures Ensure adequate ventilation, especially in confined areas. Use explosion-proof

electrical/ventilating/lighting equipment. Ensure that eyewash stations and safety showers

are close to the workstation location.

**Personal Protective Equipment** 

**Eye/face Protection** Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

**Skin and body protection**Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. Physical and chemical properties

Physical StateLow melting solidAppearanceWhite to yellowOdorOdorless

Odor Threshold No information available

pH 12.6 10% aq. solution

 Melting Point/Range
 37 - 39 °C / 98.6 - 102.2 °F

 Boiling Point/Range
 205 °C / 401 °F @ 760 mmHg

Flash Point 93 °C / 199.4 °F
Evaporation Rate No information available
Flammability (solid,gas) No information available

Flammability or explosive limits

Upper No data available
Lower No data available
Vapor Pressure 1 mbar @ 20 °C
Vapor Density No information available

Specific Gravity 1.084

Solubility
Soluble in water
Partition coefficient; n-octanol/water
No data available

Autoignition Temperature

Autoignition Temperature

480 °C / 896 °F

No information available

Viscosity

1.57 mPa.s @ 40 °C

Molecular Formula C5 H8 N2 Molecular Weight 96.13

## 10. Stability and reactivity

Reactive Hazard None known, based on information available

**Stability** Stable under recommended storage conditions.

Conditions to Avoid Avoid dust formation. Incompatible products. Heat, flames and sparks. Keep away from

open flames, hot surfaces and sources of ignition.

Incompatible Materials Strong oxidizing agents

#### 1,2-Dimethylimidazole

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx)

**Hazardous Polymerization** Hazardous polymerization does not occur.

**Hazardous Reactions** None under normal processing.

## 11. Toxicological information

#### **Acute Toxicity**

#### **Product Information**

**Component Information** 

Component	Component LD50 Oral		LC50 Inhalation	
1H-Imidazole, 1,2-dimethyl-	1H-Imidazole, 1,2-dimethyl- 1300 mg/kg (rat)		LC50: >3 mg/L/4h (rat)	

**Toxicologically Synergistic** 

No information available

**Products** 

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

Irritation Irritating to skin Causes eye burns

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
1H-Imidazole,	1739-84-0	Not listed				
1,2-dimethyl-						

**Mutagenic Effects** No information available

**Reproductive Effects** No information available.

**Developmental Effects** No information available.

**Teratogenicity** No information available.

STOT - single exposure None known STOT - repeated exposure None known

No information available **Aspiration hazard** 

delayed

Symptoms / effects, both acute and Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling

of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting

**Endocrine Disruptor Information** No information available

Other Adverse Effects The toxicological properties have not been fully investigated.

## 12. Ecological information

#### **Ecotoxicity**

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. The product contains following substances which are hazardous for the environment. Contains a substance which is:. Harmful to aquatic organisms.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
1H-Imidazole, 1,2-dimethyl-	Not listed	Brachydanio rerio:	Not listed	EC50 >100 mg/L/48h
		LC50=61.2 mg/L/96h		

Persistence and Degradability Persistence is unlikely

**Bioaccumulation/ Accumulation** No information available.

#### 1,2-Dimethylimidazole

#### Mobility

. Will likely be mobile in the environment due to its water solubility.

Component	log Pow		
1H-Imidazole, 1,2-dimethyl-	0.11		

## 13. Disposal considerations

**Waste Disposal Methods** 

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

## 15. Regulatory information

#### **United States of America Inventory**

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1H-Imidazole, 1,2-dimethyl-	1739-84-0	X	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

TSCA 12(b) - Notices of Export

Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
1H-Imidazole, 1,2-dimethyl-	1739-84-0	Χ	-	217-101-2	Χ	Χ	Χ	Х	Χ	99-3-1275

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

#### U.S. Federal Regulations

SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

**OSHA** - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

#### 1,2-Dimethylimidazole

**California Proposition 65** 

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know

Regulations

Not applicable

**U.S. Department of Transportation** 

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

**U.S. Department of Homeland** 

Security

This product does not contain any DHS chemicals.

**Other International Regulations** 

Component

Mexico - Grade Slight risk, Grade 1

#### Authorisation/Restrictions according to EU REACH

Component	. , ,	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	ı
1H-Imidazole, 1,2-dimethyl-	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-reach

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

OECD HPV

			Pollutant	Potential	Hazardous Substances (RoHS)
1H-Imidazole, 1,2-dimethyl-	1739-84-0	Not applicable	Not applicable	Not applicable	Not applicable
					_
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
1H-Imidazole, 1,2-dimethyl-	1739-84-0	Not applicable	Not applicable	Not applicable	Not applicable

Persistent Organic

Ozone Depletion

Restriction of

### 16. Other information

Prepared By Health, Safety and Environmental Department

CAS No

Email: tech@alfa.com

www.alfa.com

 Creation Date
 21-Jan-2010

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**Revision Summary** SDS authoring systems update, replaces ChemGes SDS No. 1739-84-0.

#### **Disclaimer**

The information provided in this 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

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# **End of SDS**