

# SAFETY DATA SHEET

Creation Date 29-Apr-2009

Revision Date 29-Mar-2024

**Revision Number** 3

1. Identification

**Product Name** 

# Imidazole-4-carboxylic acid

# Cat No. : H56862

CAS No Synonyms 1072-84-0 No information available

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

# Details of the supplier of the safety data sheet

## <u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

## **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

# 2. Hazard(s) identification

## **Classification**

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

Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 2 Category 2 Category 3

## Label Elements

Signal Word Warning

Hazard Statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### **Precautionary Statements** Prevention

Wash face, hands and any exposed skin thoroughly after handling

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

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

Use only outdoors or in a well-ventilated area

## Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

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

# Skin

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

# Eves

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

# Storage

Store in a well-ventilated place. Keep container tightly closed

# Store locked up

# Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	Component		Weight %				
1H-Imidazole-4-carboxylic acid		1072-84-0	100				
	4.	First-aid measures					
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Ge medical attention.						
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.						
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.						
Ingestion	Do NOT induce vomiting. Get medical attention.						
Most important symptoms and effects	No information available.						
Notes to Physician	Treat symptomatically						
5. Fire-fighting measures							

Suitable Extinguishing Media	Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impac Sensitivity to Static Discharge	No data available No data available t No information available No information available

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

Keep product and empty container away from heat and sources of ignition.

# Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>). 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 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A			
	6. Accidental re	lease measures				
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.					
Environmental Precautions	Should not be released internation.	o the environment. See Section	12 for additional Ecological			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage					
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid ingestion and inhalation. Avoid dust formation.					
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents. Strong acids.					
8. E	xposure controls / personal protection					
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.					
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.					
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 protectionWear appropriate protective gloves and clothing to prevent skin exposure.Respiratory ProtectionNo protective equipment is needed under normal use conditions.

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

# 9. Physical and chemical properties

Physical State	Solid
Appearance	No information available
Odor	No information available
Odor Threshold	No information available
рН	No information available
Melting Point/Range	242 - 244 °C / 467.6 - 471.2 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C4 H4 N2 O2
Molecular Weight	112.09

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.
Incompatible Materials	Strong oxidizing agents, Strong acids
Hazardous Decomposition Product	s Carbon monoxide (CO), Carbon dioxide (CO₂), Nitrogen oxides (NOx)
Hazardous Polymerization	No information available.
Hazardous Reactions	None under normal processing.

# 11. Toxicological information

# Acute Toxicity

Product Information Component Information Toxicologically Synergistic	See actual entry in RTECS for complete information. No information available			
Products Delayed and immediate effects as w	vell as chronic effects from short and long-term exposure			
Irritation	Irritating to eyes, respiratory system and skin			
Sensitization	No information available			

# Carcinogenicity

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

<b>O</b> omu		1450	NTO	A00"	00114	Marris	
Component 1H-Imidazole-4-carbox	CAS No 1072-84-0	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed	
ylic acid	1072-04-0					INUL IISLED	
Mutagenic Effects		No information ava	ailable				
Reproductive Effect	s	No information ava	ailable.				
Developmental Effe	cts	No information ava	ailable.				
Teratogenicity		No information ava	ailable.				
STOT - single expos STOT - repeated exp		Respiratory syster None known	n				
Aspiration hazard		No information ava	ailable				
Symptoms / effects delayed	,both acute and	No information ava	ailable				
Endocrine Disrupto	r Information	No information ava	ailable				
Other Adverse Effects         The toxicological properties have not been fully investigated.							
12. Ecological information							
Ecotoxicity Do not empty into dra	ains.						
Persistence and De	gradability	No information ava	ailable				
Bioaccumulation/ Accumulation No information available.							
Mobility No information available.							
		13. Dispo	sal conside	erations			
Waste Disposal Met	hods	Chemical waste generators must determine whether a discarded chemical is classified hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					
		14. Trar	sport infor	mation			
DOT		Not regulated					

14. Transport information					
DOT	Not regulated				
<u>TDG</u>	Not regulated				
ΙΑΤΑ	Not regulated				
IMDG/IMO	Not regulated				
15. Regulatory information					

# United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
1H-Imidazole-4-carboxylic acid	1072-84-0	-	-	-

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 Not a 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-4-carboxylic acid	1072-84-0	-	-	214-017-8	-	-		-	-	-

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

# U.S. Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable		
Clean Air Act	Not applicable		
<b>OSHA</b> - Occupational Safety and Health Administration	Not applicable		

## CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not cor	ntain any Proposition 65 chemicals
U.S. State Right-to-Know Regulations	Not applicable	
<ul> <li>U.S. Department of Transportation Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant</li> <li>U.S. Department of Homeland</li> </ul>	N N N This product does not cor	ntain any DHS chemicals.
Security Other International Regulations		
Mexico - Grade	No information available	
Authorisation/Restrictions accordin	g to EU REACH	Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	· · · · J· · · ·	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
1H-Imidazole-4-carboxylic acid	1072-84-0	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
1H-Imidazole-4-carboxylic acid	1072-84-0	Not applicable	Not applicable	Not applicable	Not applicable

#### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

#### Other International Regulations

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	<b>Convention (PIC)</b>	Basel Convention (Hazardous Waste)
1H-Imidazole-4-carboxylic acid	1072-84-0	Not applicable	Not applicable	Not applicable	Not applicable

16. Other information		
Prepared By	Health, Safety and Environmental Department Email: chem.techinfo@thermofisher.com www.thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	29-Apr-2009 29-Mar-2024 29-Mar-2024 New emergency telephone response service provider.	

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

# **End of SDS**