

SAFETY DATA SHEET

Revision Date 14-Feb-2020

Revision Number 2

1. Identification		
Product Name	Pyrazine-2-carboxylic acid	
Cat No. :	A13363	
CAS-No Synonyms	98-97-5 Pyrazinoic acid	
Recommended Use Uses advised against Details of the supplier of the safety of	Laboratory chemicals. Food, drug, pesticide or biocidal product use. 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 Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

Label Elements None required

Hazards not otherwise classified (HNOC)

None identified

3.	Composition/	Information	on	Ingredients
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Component	CAS-No	Weight %
Pyrazine-2-carboxylic acid	98-97-5	99

4. First-aid measures		
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.	
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.	
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.	
Ingestion	Do NOT induce vomiting. Get medical attention.	
Most important symptoms and	No information available.	
effects 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	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

Specific Hazards Arising from the Chemical

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

Hazardous Combustion Products

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

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.

NFPA Health 1	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions	Use personal protective eq ventilation.	uipment as required. Avoid dus	t formation. Ensure adequate
Environmental Precautions	Should not be released into	o the environment.	
Methods for Containment and C Up	lean Sweep up and shovel into s	suitable containers for disposal	

	7. Handling and storage
Handling	Avoid contact with skin and eyes. Avoid contact with skin and clothing. Remove and wash

	contaminated clothing and gloves, including the inside, before re-use. Avoid breathing vapors or mists. Do not ingest. If swallowed then seek immediate medical assistance.
Storage	Keep in a dry, cool and well-ventilated place. Refer product specification and/or product label for specific storage temperature requirement. Keep container tightly closed.
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	None under normal use conditions.
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	No 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

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Physical State	Powder Solid
Appearance	Off-white
Odor	Odorless
Odor Threshold	No information available
pH	No information available
Melting Point/Range	222 - 225 °C / 431.6 - 437 °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	Not applicable
Decomposition Temperature	No information available
Viscosity	Not applicable
Molecular Formula	C5 H4 N2 O2
Molecular Weight	124.1
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10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products.

Incompatible Materials	Strong oxidizing a	Strong oxidizing agents			
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)					
Hazardous Polymerization	Hazardous polyme	Hazardous polymerization does not occur.			
Hazardous Reactions	None under norma	al processing.			
	11. Toxico	ological info	ormation		
Acute Toxicity					
Product Information Component Information	No acute toxicity in	No acute toxicity information is available for this product			
Toxicologically Synergistic Products	No information ava	ailable			
Delayed and immediate effects as	well as chronic effe	ects from short an	d long-term expo	<u>sure</u>	
Irritation	May cause skin, e	ye, and respiratory	tract irritation		
Sensitization	No information ava	ailable			
Carcinogenicity	The table below in	dicates whether ea	ach agency has list	ed any ingredient	as a carcinogen.
ComponentCAS-NoPyrazine-2-carboxylic98-97-5	IARC Not listed	NTP Not listed	ACGIH Not listed	OSHA Not listed	Mexico Not listed
acid Mutagenic Effects	No information ava				
Reproductive Effects	No information ava	ailable.			
Developmental Effects	No information ava	ailable.			
Teratogenicity	No information ava	ailable.			
STOT - single exposure STOT - repeated exposure	None known None known				
Aspiration hazard	No information ava	No information available			
Symptoms / effects,both acute an delayed	d No information available				
Endocrine Disruptor Information	ndocrine Disruptor Information No information available				
Other Adverse Effects	Other Adverse Effects The toxicological properties have not been fully investigated.				
	12. Ecol	ogical infor	mation		
Ecotoxicity Do not empty into drains.					
Persistence and Degradability	Soluble in water P	ersistence is unlike	ely based on inform	nation available.	
Bioaccumulation/Accumulation	No information ava	ailable.			
Mobility	Will likely be mobile in the environment due to its water solubility.				
		sal conside			
Waste Disposal Methods	Chemical waste ge	enerators must det	ermine whether a	discarded chemica	l 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		
DOT	Not regulated	
DOT TDG IATA	Not regulated	
IATA	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
Pyrazine-2-carboxylic acid	98-97-5	-	-	-

Legend:

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

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

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

Component	CAS-No	DSL	NDSL	EINECS	PICCS	ENCS	AICS	IECSC	KECL
Pyrazine-2-carboxylic acid	98-97-5	-	-	202-718-1	-	Х	Х	Х	-

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
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): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.
Other International Regulations	

Mexico - Grade

No information available

	16. Other information
Prepared By	Health, Safety and Environmental Department Email: tech@alfa.com www.alfa.com
Revision Date Print Date Revision Summary	14-Feb-2020 14-Feb-2020 SDS authoring systems update, replaces ChemGes SDS No. 98-97-5/2.

Disclaimer

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End of SDS