

# SAFETY DATA SHEET

Creation Date 03-Nov-2003

Revision Date 24-Dec-2021

Revision Number 6

### 1. Identification

AC174520000; AC174520050; AC174520250

#### **Product Name**

#### 2,5-Dimethylpyrazine

#### Cat No. :

# CAS No

**Synonyms** 

123-32-0

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>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**Emergency Telephone Number** 

For information **US** call: 001-800-ACROS-01 / **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)

Flammable liquids Acute oral toxicity Skin Corrosion/Irritation Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 4 Category 2 Category 2 Category 3

#### Label Elements

Signal Word Warning

Hazard Statements Combustible liquid Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause respiratory irritation



#### 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

Use only outdoors or in a well-ventilated area

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

#### Keep cool

#### 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

#### Eyes

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

#### Ingestion

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

#### Rinse mouth

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

#### 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	CAS No	Weight %
2,5-Dimethylpyrazine	123-32-0	<=100

#### 4. First-aid measures

General Advice	If symptoms persist, call a physician.
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. If skin irritation persists,

	call a physician.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Clean mouth with water and drink afterwards plenty of water.
Most important symptoms and effects Notes to Physician	None reasonably foreseeable. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting Treat symptomatically

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	63 °C / 145.4 °F

Method -	No information available
Autoignition Temperature Explosion Limits	No information available
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 (CO<sub>2</sub>).

**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 2	Flammability 2	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions		ecautionary measures agains	adequate ventilation. Remove all t static discharges.
Methods for Containment and Up	Clean Soak up with inert absorber Remove all sources of ignit		closed containers for disposal.
	7. Handling a	and storage	
Handling		not get in eyes, on skin, or o	ure adequate ventilation. Avoid n clothing. Keep away from open
Storage.		ed in a dry, cool and well-ven compatible Materials. Strong	tilated place. Keep away from oxidizing agents.

8. Exposure 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	Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. 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 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 State	Liquid
Appearance	Clear
Odor	No information available
Odor Threshold	No information available
рН	Not applicable
Melting Point/Range	No data available
Boiling Point/Range	155 °C / 311 °F @ 760 mmHg
Flash Point	63 °C / 145.4 °F
Evaporation Rate	No information available
Flammability (solid,gas)	Not applicable
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	3.7
Density	0.99 g/cm3
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	No information available
Molecular Formula	C6 H8 N2
Molecular Weight	108.14

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.	

Incompatible Mater	ials	Strong oxidizing agents				
Hazardous Decomp	azardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)					
Hazardous Polymer	ization	Hazardous polymerization does not occur.				
Hazardous Reaction	ns	None under normal processing.				
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information Oral LD50	1	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg. Category 4. ATE = 300 - 2000 mg/kg.				
Dermal LD50		Based on ATE dat	a, the classification		et. ATE > 2000 mg/	/kg.
Vapor LC50 Component Informa Toxicologically Syn Products		Based on ATE dat		n criteria are not m	et. ATE > 20 mg/l.	
Delayed and immed	liate effects as w	ell as chronic effe	cts from short an	<u>d long-term expo</u>	<u>sure</u>	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether ea	ach agency has list	ed any ingredient a	is a carcinogen.
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
2,5-Dimethylpyrazine	123-32-0	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagenic Effects		No information ava	ailable			
Reproductive Effec	ts	No information ava	ailable.			
Developmental Effe	cts	No information available.				
Teratogenicity		No information ava				
Teratogenicity STOT - single expo STOT - repeated ex	sure		ailable.			
STOT - single expo	sure	No information ava Respiratory syster	ailable. n			
STOT - single expo STOT - repeated ex	sure posure	No information ava Respiratory syster None known No information ava	ailable. n ailable	neadache, dizzines	s, tiredness, nause	a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects	sure posure s,both acute and	No information ava Respiratory syster None known No information ava	ailable. n ailable exposure may be l	neadache, dizzines	s, tiredness, nause	a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects delayed	sure posure s,both acute and r Information	No information ava Respiratory system None known No information ava Symptoms of over	ailable. n ailable exposure may be l ailable			a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto	sure posure s,both acute and r Information	No information ava Respiratory system None known No information ava Symptoms of over No information ava The toxicological p	ailable. n ailable exposure may be l ailable properties have not	been fully investig		a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto	sure posure s,both acute and r Information cts	No information ava Respiratory system None known No information ava Symptoms of over No information ava The toxicological p	ailable. n ailable exposure may be l ailable	been fully investig		a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto Other Adverse Effect	sure posure s,both acute and r Information cts ains.	No information ava Respiratory system None known No information ava Symptoms of over No information ava The toxicological p	ailable. n ailable exposure may be l ailable properties have not ogical infor	been fully investig	ated.	a and vomiting
STOT - single expo STOT - repeated ex Aspiration hazard Symptoms / effects delayed Endocrine Disrupto Other Adverse Effect Ecotoxicity Do not empty into dra	sure posure s,both acute and r Information cts ains. gradability	No information ava Respiratory system None known No information ava Symptoms of over No information ava The toxicological p 12. Ecolo	ailable. n ailable exposure may be l ailable properties have not ogical infor ersistence is unlike	been fully investig	ated.	ea and vomiting

	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
DOT	COMBUSTIBLE LIQUID, NOT REGULATED FOR TRANSPORT IN THIS QUANTITY According to 49 CFR §173.150(f)(1), this material should reclassified as NA1993, Combustible Liquid, NOS if it is shipped in bulk.
UN-No Proper Shipping Name Packing Group <u>TDG</u> IATA IMDG/IMO	NA1993 Combustible liquid, n.o.s. III Not regulated Not regulated Not regulated
	15. Regulatory information

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
2,5-Dimethylpyrazine	123-32-0	Х	ACTIVE	-

#### Legend:

**TSCA** US EPA (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), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
2,5-Dimethylpyrazine	123-32-0	Х	-	204-618-3	Х	Х	Х	Х	Х	KE-11841

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
<b>OSHA</b> - 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
<b>U.S. Department of Transportatio</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	on 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

Authorisation/Restrictions according to EU REACH

#### 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)
2,5-Dimethylpyrazine	123-32-0	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)

		Notification	Requirements		
2,5-Dimethylpyrazine	123-32-0	Not applicable	Not applicable	Not applicable	Not applicable
16. Other information					
Prepared By	Regulato	ory Affairs			
	Thermo	Fisher Scientific			

i nermo Fisner Scientific Email: EMSDS.RA@thermofisher.com

Creation Date Revision Date	03-Nov-2003 24-Dec-2021
	24-Dec-2021
Print Date	
Revision Summary	This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

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