Myrazine
Naturally, we do what we can

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SAFETY DATA SHEET

2-Methoxy-3-sec-butylpyrazine, EU NATURAL

Version 1.0 | Revision date: November 7, 2026 | Prepared in accordance with OSHA HCS 29 CFR 1910.1200 (GHS)

1. IDENTIFICATION

1.1 Product identifiers

Product name	2-Methoxy-3-sec-butylpyrazine
Product code	M3433
Brand	Myrazine
CAS-No.	24168-70-5
EC-No.	246-050-9
FEMA No.	3433

1.2 Relevant identified uses and uses advised against

Identified uses: Flavoring ingredient; manufacture of flavors and fragrances. For industrial and professional use.

1.3 Details of the supplier of the safety data sheet

Myrazine LLC, 3942 Frontage Road, Bullhead City, AZ 86442, USA
Telephone: +1 623 565 7047 | Email: benjamincheng@myrazine.com

1.4 Emergency telephone number

For emergencies in the US, call CHEMTREC: 1-800-424-9300 (International: +1 703-527-3887)

2. HAZARD(S) IDENTIFICATION

2.1 Classification of the substance (29 CFR 1910.1200)

Flammable liquids (Category 4), H227
Acute toxicity, Oral (Category 4), H302
Skin irritation (Category 2), H315
Eye irritation (Category 2A), H319
Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

2.2 GHS label elements, including precautionary statements

Pictogram(s):



Signal word: Warning

Hazard statement(s):

H227 Combustible liquid.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

Precautionary statement(s):

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P330 Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC)

None known. Strong, persistent odor even at low concentration.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1 Substance

Formula	$C_9H_{14}N_2O$
Molecular weight	166.22 g/mol
Natural origin	Distillate of fermentation broth (EU Natural)

Component	CAS-No.	Classification	Concentration
2-Methoxy-3-sec-butylpyrazine	24168-70-5	Flam. Liq. 4; Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H227, H302, H315, H319, H335	≥ 95 %

4. FIRST-AID MEASURES

4.1 Description of first-aid measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of the dangerous area.

If inhaled: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact: Take off contaminated clothing. Wash off with soap and plenty of water. Consult a physician if irritation persists.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

Irritation of eyes, skin and respiratory tract. Harmful if swallowed. See sections 2.2 and 11.

4.3 Indication of immediate medical attention and special treatment needed

Treat symptomatically. No specific antidote.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance: Carbon oxides, nitrogen oxides (NOx). Combustible; may form flammable vapor-air mixtures when heated above the flash point.

5.3 Advice for firefighters: Wear self-contained breathing apparatus and full protective gear. Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions: Use personal protective equipment (see section 8). Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

6.2 Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods for containment and cleaning up: Absorb with inert material (sand, vermiculite, diatomaceous earth) using non-sparking tools and place in a closed container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

7.1 Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build-up of electrostatic charge. Handle in a closed system or with local exhaust where possible; the odor is very strong.

7.2 Conditions for safe storage: Keep container tightly closed in a cool, dry and well-ventilated place, protected from light and heat. Store away from strong oxidizing agents and strong acids. Recommended: original container, under nitrogen once opened.

7.3 Specific end use(s): Flavoring ingredient. No other specific uses stipulated.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters: Contains no substances with occupational exposure limit values (OSHA PEL, ACGIH TLV).

8.2 Engineering controls: Use adequate general and local exhaust ventilation. Provide an eyewash station and safety shower.

Eye/face protection: Safety glasses with side-shields or chemical goggles (NIOSH or EN 166 approved).

Skin protection: Chemical-resistant gloves (nitrile rubber, ≥ 0.4 mm). Inspect gloves before use and dispose of contaminated gloves properly. Wash and dry hands.

Body protection: Impervious clothing, selected according to the amount and concentration at the workplace.

Respiratory protection: Where ventilation is inadequate, use a NIOSH-approved respirator with organic vapor cartridges (type ABEK, EN 14387).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Liquid, colorless to pale yellow
Odor	Green pea, green bell pepper, galbanum, earthy
Odor threshold	No data available
pH	No data available
Melting / freezing point	No data available
Initial boiling point / range	218 – 219 °C @ 760 mm Hg
Flash point	77 °C (171 °F) - closed cup
Evaporation rate	No data available
Upper / lower flammability limits	No data available
Vapor pressure	No data available
Relative density	0.997 – 1.007 at 25 °C
Refractive index	1.4780 – 1.4980 at 20 °C
Water solubility	Slightly to moderately soluble
Solubility	Soluble in ethanol and most organic solvents
Partition coefficient (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity: No dangerous reactions known under normal conditions of use.

10.2 Chemical stability: Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions: None known.

10.4 Conditions to avoid: Heat, flames, sparks and other ignition sources; prolonged exposure to light and air.

10.5 Incompatible materials: Strong oxidizing agents, strong acids.

10.6 Hazardous decomposition products: Carbon oxides, nitrogen oxides (NOx). In the event of fire: see section 5.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD50 Oral - 2000 mg/kg (mouse).

Skin corrosion / irritation: May cause skin irritation.

Serious eye damage / irritation: Causes serious eye irritation.

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: No component of this product present at levels ≥ 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity: No data available.

STOT - single exposure: May cause respiratory irritation.

STOT - repeated exposure: No data available.

Aspiration hazard: No data available.

Additional information: Evaluated by JECFA and FEMA as a flavoring substance: no safety concern at current levels of intake when used as a flavoring agent. To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity: No data available.

12.2 Persistence and degradability: Not readily biodegradable (estimated).

12.3 Bioaccumulative potential: Low bioaccumulation potential (estimated).

12.4 Mobility in soil: No data available.

12.5 Other adverse effects: Do not allow undiluted product to reach groundwater, water courses or sewage systems.

13. DISPOSAL CONSIDERATIONS

Product: Burn in a chemical incinerator equipped with an afterburner and scrubber, or offer surplus and non-recyclable material to a licensed disposal company. Observe all federal, state and local regulations.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Non-bulk: Not regulated as a hazardous material.

Bulk: NA-Number 1993, Combustible liquid, n.o.s. (2-Methoxy-3-sec-butylpyrazine), Packing group III

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

TSCA (US): Listed on the TSCA Inventory.

SARA 302 Components: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components: This material does not contain any chemical components with known CAS numbers that exceed the threshold (de minimis) reporting levels of SARA Title III, Section 313.

SARA 311/312 Hazards: Fire hazard (combustible), Acute health hazard

Massachusetts Right To Know: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania / New Jersey Right To Know: 2-Methoxy-3-sec-butylpyrazine, CAS-No. 24168-70-5

California Prop. 65: This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

Food status: EU Natural flavoring substance per Regulation (EC) No 1334/2008, Article 22(2)(c). FEMA GRAS 3433. OU Kosher (Pareve).

16. OTHER INFORMATION

Full text of H-statements referred to under sections 2 and 3

H227 Combustible liquid.

H302 Harmful if swallowed.

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.

HMIS Rating		NFPA Rating	
Health hazard	1	Health hazard	1
Flammability	2	Fire hazard	2
Physical hazard	0	Reactivity hazard	0

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