Penta Fine Ingredients, Inc.
4 Dedrick Place West Caldwell, NJ 07006 | Tel: (973)740-2300 | Fax: (973)740-1839
www.pentamfg.com | E-mail: sales@pentamfg.com

SAFETY DATA SHEET

Revision Date: 7/01/2023
Print Date: 10/09/2026

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	NATURAL 2-METHYL PYRAZINE
Product Number	13-67220
Brand	Penta
Identified Uses	Manufacture of substances
Company	Penta Fine Ingredients, Inc. 4 Dedrick Place West Caldwell NJ 07006 U.S.A.
Telephone	(973)740-2300
Fax	(973)740-1839
Emergency Phone	(800)424-9300 24-Hrs

2. HAZARD(S) IDENTIFICATION

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Flammable liquids (Category 3)
Acute toxicity, Oral (Category 4)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements

Pictogram:

Signal word	Warning
Hazard statement(s)	
H226	Flammable liquid and vapour.
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.

P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ 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/ protective clothing/ eye protection/ face protection.
P301 P312	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.
P303 P361 P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305 P351 P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/ physician if you feel unwell.
P321	Specific treatment (see supplemental first aid instructions on this label).
P330	Rinse mouth.
P332 P313	If skin irritation occurs: Get medical advice/ attention.
P337 P313	If eye irritation persists: Get medical advice/ attention.
P362	Take off contaminated clothing and wash before reuse.
P370 P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.
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.

HMIS Classification

Health hazard	2
Flammability	2
Physical hazards	1

NFPA Rating

Health hazard	2
Fire	2
Reactivity Hazard	0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.
Ingestion	Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula	C5H6N2		
Molecular Weight	94.11 g/mol		
CAS-No	EC-No	Index-No.	Concentration
109-08-0	203-645-8		

4. FIRST-AID MEASURES

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

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

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.

5. FIRE-FIGHTING MEASURES

Conditions of flammability
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking.

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

Further information
Use water spray to cool unopened containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

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

Methods and materials for containment and cleaning up
Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Conditions for safe storage
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection
Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection
Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	LIQUID
Colour	COLORLESS TO PALE YELLOW

Safety data

pH	no data available
Melting point (°C)	no data available
Boiling point (°C)	136
Flash point (°F) Closed cup	122
Ignition temperature	no data available
Autoignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg @20 °C)	0.5
Density @25 °C	1.020
Water solubility	SOLUBLE
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odor	AROMATIC
Odour Threshold	no data available
Evaporation rate	no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
no data available

Conditions to avoid
Heat, flames and sparks.

Materials to avoid
Strong oxidizing agents

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)
Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Oral LD50
LD50 Oral - rat - 1,800 mg/kg

Inhalation LC50
no data available

Dermal LD50
no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Carcinogenicity

IARC:	No component of this product present at levels greater than or equal to 0.1% is identified as probable. possible or confirmed human carcinogen by IARC.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
NTP:	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
no data available

Teratogenicity
no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)
Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure (Globally Harmonized System)
no data available

Aspiration hazard
no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects
no data available

Additional Information
RTECS: UQ3675000

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

Product
Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
UN number: 1993 Class: 3 Packing group: III
Proper shipping name: FLAMMABLE LIQUID N.O.S.

IMDG
UN number: 1993 Class: 3 Packing group: III
Proper shipping name: FLAMMABLE LIQUID N.O.S.

IATA
UN number: 1993 Class: 3 Packing group: III
Proper shipping name: FLAMMABLE LIQUID N.O.S.

15. REGULATORY INFORMATION

OSHA Hazards
Combustible Liquid, Harmful by ingestion., Irritant

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

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

SARA 311/312 Hazards
Fire Hazard, Acute Health Hazard

Massachusetts Right To Know Components

2-Methylpyrazine	CAS-No.	Revision Date
	109-08-0	1993-04-24

Pennsylvania Right To Know Components

2-Methylpyrazine	CAS-No.	Revision Date
	109-08-0	1993-04-24

New Jersey Right To Know Components

2-Methylpyrazine	CAS-No.	Revision Date
	109-08-0	1993-04-24

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

16. OTHER CATEGORIES

Safety Data Sheet prepared by: Penta

The information in this SDS was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions for use, handling, storage and disposal of this product are beyond Penta's control, it is the responsibility of the user both to determine safe conditions for use of this product and to assume liability for loss, damage, or expense arising out of the products improper use. No warranty expressed or implied regarding the product described herein will be created by or inferred from any statement or omission in the SDS. Various federal, state, or provincial agencies may have specific regulations concerning the transportation, handling, storage, use, or disposal of this product which may not be reflected in the SDS. The user should review these regulations to ensure full compliance.

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TECHNICAL DATA SHEET

PRODUCT NAME: NATURAL 2-METHYL PYRAZINE		
PRODUCT CODE: 13-67220		
REV DATE: February 4, 2021	**CAS #:** 109-08-0	**FEMA #:** 3309
COE #: 2270	**Flavis #:** 14.027	**JECFA #:** 761
ECHA #: 203-645-8	**Food Grade, Kosher, Halal, EU Natural, US Natural**	

TEST	SPECIFICATIONS
MOLECULAR FORMULA	C5 H6 N2
MOLECULAR WEIGHT	94.11
APPEARANCE	COLORLESS TO PALE YELLOW LIQUID
ASSAY (1 PEAK BY G.C.)	99.0% MINIMUM
FLASH POINT	122° F
BOILING POINT	136° C TO 137° C
REFRACTIVE INDEX @ 20°C	1.495 - 1.515
SPECIFIC GRAVITY @25°C	1.015 - 1.035
SOLUBILITY	SOLUBLE IN WATER, ALCOHOL & ETHER IN ALL PROPORTIONS SOLUBLE IN ACETONE

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October 9, 2026

ALLERGEN CHECKLIST FOR FOOD SUPPLIERS/MANUFACTURERS

Date:	**Product Code:**	**Manufacturer Location:**
Oct 09, 2026	13-67220	West Caldwell, NJ
Country:	**Product Name:**	**Supplier:**
U.S.A	NATURAL 2-METHYL PYRAZINE	PENTA FINE INGREDIENTS, Inc.

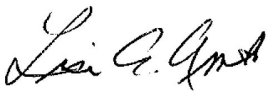
The first column indicates the allergens that may be found in the product, either by addition or by cross contamination, The second column indicates the allergens that are present in other products, that are run on the same equipment but at a different time, in our plant. The third column indicates whether any of those ingredients are present in our plant.

1. Please fill in each of square with a Yes or No and applicable the name of an ingredient.

COMPONENT	PRESENT IN THE PRODUCT	SOURCE	PRESENT IN OTHER PRODUCTS MANUFACTURED ON THE SAME LINE	PRESENT IN THE SAME MANUFACTURING PLANT
PEANUTS and peanut products	**NO**		**NO**	**NO**
TREE NUTS	**NO**		**NO**	**NO**
SESAME, SUNFLOWER, POPPY, COTTONSEEDS (except refined oils)	**NO**		**NO**	**NO**
MILK AND DERIVATIVES eg whey, milk, caseninate, etc.	**NO**		**NO**	**NO**
EGGS	**NO**		**NO**	**NO**
Fish and fish products	**NO**		**NO**	**NO**
SHELLFISH	**NO**		**NO**	**NO**
SOY (except refined soy oil)	**NO**		**NO**	**NO**
AUTOLYZED YEAST	**NO**		**NO**	**NO**
CEREAL PROTEINS (include HVP)	**NO**		**NO**	**NO**
FD&C YELLOW 5	**NO**		**NO**	**NO**
SULFITES	**NO**		**NO**	**NO**
CELERY	**NO**		**NO**	**NO**
SEEDS	**NO**		**NO**	**NO**

**** Items are also free from Lupin, Molluscs and products there of, as well as Gluten, Mustard, Wheat or Carmine.

2. Do you have effective procedures to avoid cross-contamination of the product with the allergens not present in the product but noted in columns II and III? **YES**



Lisa A. Amato
Technical Services Manager

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ANIMAL TESTING CERTIFICATION

Penta Fine Ingredients, Inc. does not perform or commison animal testing on any of its products. All products are manufactured in accordance with Good Manufacturing Practices (GMPs)

Faitma Jasmins
Senior Technical Coordinator

Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220

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October 9, 2026

DIETARY PREFERENCES & RESTRICTIONS

We hereby declare that the following product:

Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220

Is suitable for consumption by:

LACTO-OVO-VEGETARIANS (Do not eat meat, poultry, fish-seafood, but do eat eggs and dairy products)

LACTO-VEGETARIANS (Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products)

OVO-VEGETARIANS (Do not eat meat, poultry, fish/seafood, dairy products, but do eat eggs)

VEGANS (Do not eat meat, poultry, fish/seafood, eggs, dairy products or honey)

Faitma Jasmins
Senior Technical Coordinator

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FOOD GRADE CERTIFICATE

This is to verify that the following listed product purchased from Penta Fine Ingredients, Inc. is food grade quality. This material is allowed for use as a flavor ingredient intended for human consumption, or as an indirect additive acccording to the United States Food and Drug Administration 21 CFR and / or also complies with European 88/388/EEC and 1334/2008/CE Flavorings directive. This material is manufactured in accordance with Good Manufacturing Practices (GMPs).

Lisa A. Amato
Technical Services Manager

Product Name: NATURAL 2-METHYL PYRAZINE
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GMO QUESTIONNAIRE (GENETICALLY MODIFIED ORGANISMS)

Supplier: PENTA FINE INGREDIENTS, Inc.
Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220

1. Is this product, or any of its ingredeints that are used in the manufacturing process, derived from any genetically modified material? **NO**
2. Does the final product, or any of its ingredients, contain any genetically modified material? **NO**
3. Was this product irradiated or contain any irradiated ingredients? **NO**
4. Does the product require labeling under EU Regualtions 1829/2003, 1830/2003 and 1820/2003? **NO**
5. Does the product consist of GMOs, Contains GMOs, or is it produced from GMOs as defined in EU 1829/2000 and 1830/2003? **NO**
   Justification certification: **Supplier questionnaire and written certification.**

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GRAS CERTIFICATE

This is to certify that the below reference item, purchased from Penta Fine Ingredients, Inc. is GRAS and is approved by the FDA for use in flavors under 21 CFR. This product is manufactured in accordance with Good Manufacturing Practices (GMPs)

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HEAVY METALS STATEMENT

We confirm that the following material(s) supplied to you by Penta Fine Ingredients, Inc., Conforms to Article 4 of the EEC Flavoring Directive 88/388/EEC and 1334/2008 EC, with regard to heavy metals, namely:

CADMIUM:	MAX 0.2 µg/g
MERCURY:	MAX 0.1 µg/g
ARSENIC:	MAX 0.2 µg/g
LEAD:	MAX 0.5 µg/g

Lisa A. Amato
Technical Services Manager

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MELAMINE FREE CERTIFICATION

This is to certify the below referenced item purchased from Penta Fine Ingredients, Inc. does not contain nor is it derived from any raw materials that contain Melamine. Also, Melamine is not produced from any manufacturing processes incorporated by Penta Fine Ingredients, Inc.

All products are manufactured in accordance with Good Manufacturing Practices (GMPs) and are F.D.A. approved for use in food and/or cosmetic and/or pharmaceutical products.

Faitma Jasmins
Senior Technical Coordinator

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NATURAL CERTIFICATE (EU)

We, Penta Fine Ingredients, Inc. herewith certify the below referenced item is to be considered as a:

Natural flavoring substance:

A flavoring substance obtained by appropriate physical, enzymatic or microbiological processes from material of vegetable, animal or microbiological origin either in the raw state or after processing for human consumption by one or more of the traditional food preparation processes listed in Annex II. Natural flavoring substances correspond to substances that are naturally present and have been identified in nature.

According to the definitions as laid down in the EEC Council Directive 88/388/EC and EC Regulation 1334/2008 on the approximation of the laws of the Member States relating to flavorings for use in Foodstuffs and to source materials for their protection.

Lisa A. Amato
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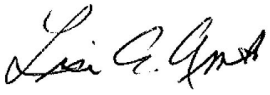
NATURAL CERTIFICATE (US)

As per your request we are pleased to certify to you:

At the time of shipment, the article of food, drug, or other commodity listed below, comprising our shipment or other delivery hereafter made by the seller to, or on the order of the buyer, is on such date (1) not adulterated or mis-branded within the meaning of the Federal Food, Drug, and Cosmetic Act; (2) not an article which may not, under the provisions of Section 404 or 405 of said act be introduced into interstate commerce; (3) not adulterated or mis-branded within the meaning of the Food or Drug laws of any state or municipality which are applicable to such shipment or delivery, or (4) it is composed of only natural ingredients as defined in Section 21 CFR 101.22 (a)(3) and to the best of our knowledge and belief contains no artificial flavor ingredients and we have added no artificial flavor ingredient to it.

The guarantees given herein are continuing and shall be in full force and effect until revoked in writing.

Should you require additional information, please contact us at your convenience.



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ORGANIC CERTIFICATION DECLARATION OF INGREDIENT COMPLIANCE 95% ORGANIC FOODS

This is to certify that the following product is not produced using any of the following methods or substances:

A. Exclude methods as defined in 7 Code of Federal Regulations ("CFR") Section 205.2 and generally pertaining to genetically modified organisms.
B. Ionizing radiation as described in 21 CFR 179.26
C. Sewage sludge as defined in 7 CFR 205.2
D. Synthetic solvents and/or carrier systems and/or artificial preservatives.

And the product maybe used in 95% organic foods as defined in 7CFR 205

Furthermore, this product contains no additives unless stated on product ingredient declaration and specification documents.

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PROPOSITION 65 EXEMPT

To the best of our knowledge, the below referenced item does not contain any ingredients listed under the State of California, Proposition 65 Environmental Protection Agency Office of Environmental Health Hazard Assessment Safe Drinking Water and Toxic Enforcement Act Of 1986.

Lisa A. Amato
Technical Services Manager

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COUNTRY OF EXPORT

We hereby declare that the country of export for the below listed product supplied by Penta Fine Ingredients, Inc. is the U.S.A.

Lisa A. Amato
Technical Services Manager

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PESTICIDE AND HEAVY METAL DECLARATION

We hereby confirm that the ingredients listed below meet the E.U. regulations as outlined in (EC) 2023/915 in regards to contaminants prohibited in food grade raw material ingredients. The below listed ingredients also comply with the E.U. regulation 396/2005/EC, regarding the maximum residue levels of pesticides in food grade raw material ingredients of plant and animal origin.

Faitma Jasmins
Senior Technical Coordinator

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IRRADIATION & SEWAGE SLUDGE

We hereby confirm that the ingredient listed below, has not been:

- Exposed to Ionizing Ration
- Derived from Sewage Sludge
- Treated with Ethylene Oxide

Lisa A. Amato
Technical Services Manager

Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220

Penta Fine Ingredients, Inc.
4 Dedrick Place West Caldwell, NJ 07006 | Tel: (973)740-2300 | Fax: (973)740-1839
www.pentamfg.com | E-mail: sales@pentamfg.com

October 9, 2026

LATEX FREE CERTIFICATION

This is to certify the below referenced material purchased from Penta Fine Ingredients, Inc. does not contain nor is it derived from any raw materials that contain Latex.

Also, Latex is not produced from any manufacturing processes incorporated by

Penta Fine Ingredients, Inc.

All products are manufactured in accordance with Good Manufacturing Practices (GMPs) and are F.D.A. approved for use in food and/or cosmetic and/or pharmaceutical products.

Faitma Jasmins
Senior Technical Coordinator

Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220

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PALM OIL FREE CERTIFICATION

This is to verify the below listed product, purchased from Penta Fine Ingredients, Inc. is Palm Oil Free and manufactured in accordance with Good Manufacturing Practices (GMPs). No Palm Oil or Palm Oil Derivatives are used in the manufacturing process.

Lisa A. Amato
Technical Services Manager

Product Name: NATURAL 2-METHYL PYRAZINE
Product Code: 13-67220