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SAFETY DATA SHEET

Revision Date: 11/01/2020 Print Date: 2/03/2023

1. PRODUCT AND COMPANY IDENTIFICATION

VANILLIN ACETATE	
22-31000	
Penta	
Manufacture of substances	
Penta International Corporation	
50 Okner Parkway	
Livingston NJ 07039-1604 U.S.A.	
(973)740-2300	
(973)740-1839	
(800)424-9300 24-Hrs	

2. HAZARD(S) IDENTIFICATION

Emergency Overview

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute toxicity, Oral (Category 4)

GHS Label elements, including precautionary statements

Pictogram:	
Signal word	Warning
Hazard statement(s)	
H302	Harmful if swallowed.
Precautionary	
statement(s)	
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.

D201 D212	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if
P301, P312	you feel unwell.
P330	Rinse mouth.
P501	Dispose of contents/ container to an approved waste disposal plant.
HMIS Classification Health hazard Flammability Physical hazards NFPA Rating Health hazard Fire Reactivity Hazard	1 1 1 1 0
Potential Health Effe Inhalation Skin Eyes Ingestion	ects May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if absorbed through skin. May cause skin irritation May cause eye irritation. May be harmful if swallowed

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYM	4-Formyl-2-meth	oxyphenyl acetate	
Formula	C10H10O4		
Molecular Weight	194.19		
CAS-No	EC-No	Index-No.	Concentration
881-68-5	212-920-1		

No ingredients are hazardous according to OSHA criteria.

4. FIRST-AID MEASURES

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

5. FIRE-FIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. 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

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

Skin and body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

General industrial hygiene practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

solid white

Appearance

Form Colour

Safety data	
pH	no data available
Melting point (°C)	77
Boiling point (°C)	no data availabe
Flash point (°F) Closed cup	>200
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) no data available
°C)	no data avallable
Density @25 °C	no data available
Water solubility	insoluble
Partition coefficient:	no data available
n-octanol/water	no data avallable
Relative vapour density	no data available
Odor	white
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 no data available

Materials to avoid Strong oxidizing agents, Strong bases

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 - no data available **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

	No component of this product present at levels greater than or equal to
IARC:	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
ACOIN.	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
NIF:	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
USHA:	0.1% is identified as a carcinogen or potential carcinogen by OSHA.
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Reproductive toxicity no data available

Teratogenicity

no data available

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

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

Signs and Symptoms of Exposure no data available

Additional Information RTECS: Not available

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 Offer surplus and non-recyclable solutions to a licensed disposal company

Contaminated packaging Dispose of as unused product

14. TRANSPORT INFORMATION

DOT (US) Not dangerous goods.

IMDG Not dangerous goods.

IATA Not dangerous goods.

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards.

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

No SARA hazards

Massachusetts Right To Know Components

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

Pennsylvania Right To Know Components

4-Formyl-2-methoxyphenyl acetate	CAS-No.	Revision Date
:	881-68-5	

New Jersey Right To Know Components

4-Formyl-2-methoxyphenyl acetate	CAS-No.	Revision Date
	881-68-5	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause caner, 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.



TECHNICAL DATA SHEET

PRODUCT NAME: VANILLIN ACETATE			
PRODUCT CODE: 22-31000			
SHELF LIFE: 24 Months	CAS #: 881-68-5	FEMA #: 3108	
COE #: 225	Flavis #: 09.035	JECFA #: 890.0	
ECHA #: 212-920-1	Food Grade, Kosher, Halal	1	

TEST	SPECIFICATIONS
MOLECULAR FORMULA	C10 H10 O4
MOLECULAR WEIGHT	194.19
APPEARANCE	WHITE POWDER
ASSAY (G.C.)	98.0% MINIMUM
ODOR	FLORAL, BALSAMIC
FLASH POINT	200+° F
MELTING POINT	77° - 79° C
ISOLUBILITY	INSOLUBLE IN WATER SOLUBLE IN ETHANOL



Penta International Corporation

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February 3, 2023

ALLERGEN CHECKLIST FOR FOOD SUPPLIERS/MANUFACTURERS

Date:	Product Code:	Manufacturer Location:
Feb 03, 2023	22-31000	Livingston, NJ
Country:	Product Name:	Supplier:
U.S.A	VANILLIN ACETATE	Penta International Corporation
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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**

Lien G. GmA

Lisa A. Amato Technical Services Manager



February 3, 2023

ANIMAL TESTING CERTIFICATION

No animal testing was performed prior to or after June 20th 2002 and all chemicals and their raw materials comply with Cosmetics Directive 76/768/EC (Directive 2003/15/EC effective from 11 September 2004) and all of its amendments. 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.

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Faitma Jasmins Senior Technical Coordinator



February 3, 2023

CONTINUING FOOD & DRUG GUARANTY

Penta Manufacturing Company hereby guarantees that each and every article contained in each shipment or other delivery hereafter made by or through us to or on the order of; Penta Manufacturing Company, as of the date of such shipment or delivery to be:

- 1. Not adulterated or mis-branded within the meaning of the Federal Food, Drug and Cosmetic Act, and not an article which may not, under the provisions of Section 404, 505, or 512 of the Act, be introduced into interstate commerce;
- 2. Free from any artificial color required to be certified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act unless the artificial color is from a batch that has been certified by the Federal Food and Drug Administration and complies with the provisions of 21 Code of Federal Regulations Parts 70 through 82; and
- 3. With respect to any flavor supplied by Penta Manufacturing Company which is designated as containing no artificial flavor, said flavor does not, to the best of its knowledge and belief, contain any artificial flavor and Penta Manufacturing Company has added no artificial flavor to it.

Lisi G. Ant

Lisa A. Amato Technical Services Manager



February 3, 2023

DIETARY PREFERENCES & RESTRICTIONS

We hereby declare that the following product:

Product Name: VANILLIN ACETATE **Product Code:** 22-31000

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)

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Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

FOOD GRADE CERTIFICATE

This is to verify that the following listed product purchased from Penta Manufacturing Corporation 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).

Lisi G. Gmt

Lisa A. Amato Technical Services Manager



February 3, 2023

GMO QUESTIONNAIRE (GENETICALLY MODIFIED ORGANISMS)

Supplier: PENTA INTERNATIONAL CORPORATION **Product Name:** VANILLIN ACETATE **Product Code:** 22-31000

- 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
- Does the product consist of GMOs, Contains GMOs, or is it produced from GMOs as defined in EU 1829/2000 and 1830/2003? <u>NO</u> Justification certification: Supplier questionnaire and written certification.

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Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

GRAS CERTIFICATE

This is to certify that the below reference item, purchased from Penta Manufacturing Corporation 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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Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

HEAVY METALS STATEMENT

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

CADMIUM: MAX 1mg/kg MERCURY: MAX 1mg/kg ARSENIC: MAX 3mg/kg LEAD: MAX 10mg/kg

Lisi G. Gmt

Lisa A. Amato Technical Services Manager



February 3, 2023

MELAMINE FREE CERTIFICATION

This is to certify the below referenced item purchased from Penta Manufacturing Corporation 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 Manufacturing Corporation.

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.

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Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

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.

Lisi G. Gmt

Lisa A. Amato **Technical Services Manager**



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February 3, 2023

CERTIFICATE OF ORIGIN

We hereby declare that the country of origin for the below listed product supplied by Penta International Corporation is the U.S.A.

Lisi G. Gnat

Lisa A. Amato Technical Services Manager



February 3, 2023

PESTICIDE AND HEAVY METAL DECLARATION

We hereby confirm that the ingredients listed below meet the E.U. regulations as outlined in 1881/2006/EC 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.

Further.

Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

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

Lisi G. Gnat

Lisa A. Amato **Technical Services Manager**



February 3, 2023

LATEX FREE CERTIFICATION

This is to certify the below referenced material purchased from Penta Manufacturing Corporation 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 Manufacturing Corporation.

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.

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Faitma Jasmins Senior Technical Coordinator



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February 3, 2023

PALM OIL FREE CERTIFICATION

This is to verify the below listed product, purchased from Penta Manufacturing Corporation 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.

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Alisa Commerato Technical Coordinator



Penta International Corporation

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SHELF LIFE

PRODUCT NAME: VANILLIN	ACETATE		
PRODUCT CODE: 22-31000			
CAS #: 881-68-5	FEMA #: 3108	COE #: 225	
Flavis #: 09.035	JECFA #: 890.0	ECHA #: 212-920-1	
Food Grade, Kosher, Halal			

Minimum Shelf Life of the above referenced product will vary depending on Storage Conditions, temperature of storage area, and the type of chemicals the raw material is stored near. We recommend the re-testing of raw material ingredients kept in stock at intervals of 9 to 12 months.

This material has a maximum Shelf Life of 24 Months from the Date of Manufacture when stored under proper storage conditions.

*The maximum shelf life given reflects the time line for studies performed by Penta. It is meant to indicate that after that period of time has elapsed, the customer should re-check the material to validate the quality of the product.

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Faitma Jasmins Senior Technical Coordinator