



Penta International Corporation

50 Okner Parkway Livingston, NJ 07039-1604 | Tel: (973)740-2300 | Fax: (973)740-1839
www.pentamfg.com | E-mail: sales@pentamfg.com

SAFETY DATA SHEET

Revision Date: 11/01/2020

Print Date: 10/01/2021

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	ETHYL VANILLIN PROPYLENE GLYCOL ACETAL
Product Number	05-75300
Brand	Penta
Identified Uses	Manufacture of substances
Company	Penta International Corporation 50 Okner Parkway Livingston NJ 07039-1604 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)

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 P270	Wash thoroughly after handling. Do not eat, drink or smoke when using this product.
P301 P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P330	Rinse mouth.

H501

Dispose of contents/container in accordance with local/regional/national/international regulations.

HMIS Classification

Health hazard 1
Flammability 1
Physical hazards 1

NFPA Rating

Health hazard 1
Fire 1
Reactivity Hazard 0

Potential Health Effects

Inhalation

May be harmful if inhaled. May cause respiratory tract irritation.

Skin

May be harmful if absorbed through skin. May cause skin irritation.

Eyes

May cause eye irritation.

Ingestion

Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYM	Ethyl Vanillin PG Acetal Ethyl Vanillin Propyleneglycol Acetal		
Formula	C12 H16 O4		
Molecular Weight	220.31 g/mol		
CAS-No	EC-No	Index-No.	Concentration
68527-76-4	271-281-7	N/A	N/A

4. FIRST-AID MEASURES

If inhaled

If beathed 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 breathing vapours, mist or gas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Normal measures for preventive fire protection.

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

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. 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

Impervious 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)	160
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 °C)	no data available
Density @25 °C	1.165
Water solubility	INSOLUBLE

Partition coefficient: n-octanol/water	no data available
Relative vapour density	>1
Odor	SWEET, VANILLA
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

Hazardous 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

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)

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

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

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. Contact a licensed professional waste disposal service to dispose of this material.

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

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 Component

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

Pennsylvania Right To Know Component

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

New Jersey Right To Know Component

No components are subject to the New Jersey Right to Know Act.

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: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL		
PRODUCT CODE: 05-75300		
REV DATE: December 1, 2020	SHELF LIFE: 24 Months	CAS #: 68527-76-4
FEMA #: 3838	JECFA #: 954	ECHA #: 271-281-7
Food Grade, Kosher, Halal		

TEST	SPECIFICATIONS
MOLECULAR FORMULA	C ₁₂ H ₁₆ O ₄
MOLECULAR WEIGHT	220.31
APPEARANCE	COLORLESS TO PALE YELLOW VISCOUS LIQUID
ASSAY (GC, SUM ISOMERS)	95.0% MINIMUM
ODOR	SWEET, VANILLA
FLASH POINT	200+° F
BOILING POINT	160° C
REFRACTIVE INDEX @ 20°C	1.525 - 1.545
SPECIFIC GRAVITY @25°C	1.155 - 1.175
SOLUBILITY	INSOLUBLE IN WATER SOLUBLE IN ALCOHOL



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October 1, 2021

ALLERGEN CHECKLIST FOR FOOD SUPPLIERS / MANUFACTURERS

Date: Oct 01, 2021	Product Code: 05-75300	Manufacturer Location: Livingston, NJ
Country: U.S.A	Product Name: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL	Supplier: Penta International Corporation

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.

<u>COMPONENT</u>	<u>PRESENT IN THE PRODUCT</u>	<u>SOURCE</u>	<u>PRESENT IN OTHER PRODUCTS MANUFACTURED ON THE SAME LINE</u>	<u>PRESENT IN THE SAME MANUFACTURING PLANT</u>
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**

Mr. Mark J. Volpe
Quality Control Supervisor



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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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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.

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DIETARY PREFERENCES & RESTRICTIONS

We hereby declare that the following product:

Product Name: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL

Product Code: 05-75300

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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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 according to the United States Food & Drug Administration 21 CFR and also complies with European 88/388/EEC and 1334/2008/CE Flavorings directive. This material is manufactured in accordance with Good Manufacturing Practices (GMPs).

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GMO QUESTIONNAIRE (GENETICALLY MODIFIED ORGANISMS)

Supplier: PENTA INTERNATIONAL CORPORATION

Product Name: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL

Product Code: 05-75300

1. Is this product, or any of its ingredients 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 Regulations 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 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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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

A handwritten signature in black ink that reads "Mark J. Volpe".

Mr. Mark J. Volpe
Quality Control Supervisor

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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.

A handwritten signature in black ink that reads "Mark J. Volpe".

Mr. Mark J. Volpe
Quality Control Supervisor

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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.

A handwritten signature in black ink that reads "Mark J. Volpe".

Mr. Mark J. Volpe
Quality Control Supervisor

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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.

A handwritten signature in black ink that reads "Mark J. Volpe".

Mr. Mark J. Volpe
Quality Control Supervisor

Product Name: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL

Product Code: 05-75300



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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 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.

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IRRADIATION & SEWAGE SLUDGE

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

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

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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.

Mr. Mark J. Volpe
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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.

A handwritten signature in black ink that reads "Mark J. Volpe".

Mr. Mark J. Volpe
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SHELF LIFE

PRODUCT NAME: ETHYL VANILLIN PROPYLENE GLYCOL ACETAL		
PRODUCT CODE: 05-75300		
REV DATE: December 1, 2020	CAS #: 68527-76-4	FEMA #: 3838
JECFA #: 954	ECHA #: 271-281-7	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.

Mr. Mark J. Volpe
Quality Control Supervisor