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: 10/11/2026

## 1. PRODUCT AND COMPANY IDENTIFICATION

| | |
|---|---|
| Product Name | CETYL ALCOHOL NF/EP/JP GRADE |
| Product Number | 03-18210 |
| Brand | Penta |
| Identified Uses | Manufacture of substances |
| Company | Penta Fine Ingredients, Inc.<br>4 Dedrick Place<br>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)**
Skin irritation (Category 2)

**GHS Label elements, including precautionary statements**

Pictogram:

| | |
|---|---|
| Signal word | Warning |
| Hazard statement(s) | |
| H315 | Causes skin irritation. |
| Precautionary statement(s) | |
| P264 | Wash skin thoroughly after handling. |
| P280 | Wear protective gloves. |
| P302 P352 | IF ON SKIN: Wash with plenty of soap and water. |
| P321 | Specific treatment (see supplemental first aid instructions on this label). |
| P332 P313 | If skin irritation occurs: Get medical advice/ attention. |
| P362 | Take off contaminated clothing and wash before reuse. |

**HMIS Classification**

| | |
|---|---|
| **Health hazard** | 2 |
| **Flammability** | 1 |
| **Physical hazards** | 0 |

| **NFPA Rating** | |
|---|---|
| **Health hazard** | 2 |
| **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. Causes skin irritation. |
| **Eyes** | May cause eye irritation. |
| **Ingestion** | May be harmful if swallowed. |

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|---|---|
| SYNONYM | Palmityl alcohol<br>1-Hexadecanol |
| Formula | C16H34O |
| Molecular Weight | 242.44g/mol |

| CAS-No | EC-No | Index-No. | Concentration |
|---|---|---|---|
| 36653-82-4 | 253-149-0 | N/A | N/A |

## 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 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 | Solid |
| Colour | White to Off White |

**Safety data**

| | |
|---|---|
| pH | no data available |
| Melting point (°C) | 50 |
| Boiling point (°C) | 344 |
| 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 | no data available |
| Water solubility | Negligible |
| Partition coefficient: n-octanol/water | no data available |
| Relative vapour density | no data available |
| Odor | Characteristic |
| 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**
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 Ill, 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 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.**

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## TECHNICAL DATA SHEET

| | | |
|---|---|---|
| **PRODUCT NAME:** CETYL ALCOHOL NF/EP/JP GRADE | | |
| **PRODUCT CODE:** 03-18210 | | |
| **REV DATE:** August 1, 2022 | **CAS #:** 36653-82-4 | **FEMA #:** 2554 |
| **COE #:** 57 | **Flavis #:** 02.009 | **JECFA #:** 114 |
| **ECHA #:** 253-149-0 | **Food Grade, Kosher, Halal** | |

| TEST | SPECIFICATIONS |
|---|---|
| MOLECULAR FORMULA | C16 H34 O |
| MOLECULAR WEIGHT | 242.44 |
| DESCRIPTION (NF) | WHITE OR ALMOST WHITE, UNCTUOUS FLAKES |
| IDENTIFICATION (NF) | TO PASS TEST |
| CLARITY OF SOLUTION (JP) | TO PASS TEST |
| APPEARANCE OF SOLUTION (EP) | TO PASS TEST |
| ALKALI (JP) | TO PASS TEST |
| MELTING POINT ( EP & JP) | 46°C - 53°C |
| WATER (NF) | NOT MORE THAN 0.5% |
| ACID VALUE JP/EP | NOT MORE THAN 1.0 |
| ESTER VALUE (JP) | NOT MORE THAN 2.0 |
| IODINE VALUE (NF) | NOT MORE THAN 5.0 |
| HYDROXY VALUE (NF/EP/JP) | NOT MORE THAN 0.05% |
| HYDROXY VALUE (NF/EP/JP) | BETWEEN 210 AND 238 |
| SAPONIFICATION VALUE (EP) | NOT MORE THAN 2.0 |
| LIMIT OF RELATED FATTY ALCOHOLS | BRANCHED PRIMARY AND LINEAR SECONDARY FATTY ALCOHOLS<br>NOT MORE THAN 5.0%<br><br>RELATED LINEAR FATTY ALCOHOLS<br>NOT MORE THAN 1.0%<br><br>RELATED UNSATURATED ALCOHOL<br>NOT MORE THAN 1.0%<br><br>SUM OF UNIDENTIFIED IMPURITIES |
| ASSAY (C16 H34 O) | NOT LESS THAN 90.0% AND NOT MORE THAN 102.0% (NF) |
| USP - NF PUBLICATION | USP - NF 2022 ISSUE 2 |

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October 11, 2026

## ALLERGEN CHECKLIST FOR FOOD SUPPLIERS/MANUFACTURERS

| **Date:** | **Product Code:** | **Manufacturer Location:** |
|---|---|---|
| Oct 11, 2026 | 03-18210 | West Caldwell, NJ |
| **Country:** | **Product Name:** | **Supplier:** |
| U.S.A | CETYL ALCOHOL NF/EP/JP GRADE | 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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October 11, 2026

## 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:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210

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October 11, 2026

# DIETARY PREFERENCES & RESTRICTIONS

We hereby declare that the following product:

**Product Name:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210

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:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210

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**GMO QUESTIONNAIRE (GENETICALLY MODIFIED ORGANISMS)**

**Supplier:** PENTA FINE INGREDIENTS, Inc.
**Product Name:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210

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.**

**Faitma Jasmins**
**Senior Technical Coordinator**

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October 11, 2026

# 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)

**Faitma Jasmins**
**Senior Technical Coordinator**

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October 11, 2026

## 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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**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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October 11, 2026

## 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**

**Product Name:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210

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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**
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October 11, 2026

## 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**

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October 11, 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**

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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:** CETYL ALCOHOL NF/EP/JP GRADE
**Product Code:** 03-18210