

# 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: 9/01/2021

# **1. PRODUCT AND COMPANY IDENTIFICATION**

Product Name	METHYL DIHYDROJASMONATE HC
Product Number	13-40205
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) Skin Corrosion / Irritation (Category 2) Sensitisation, Skin (Category 1) Serious Eye Damage / Eye Irritation (Category 2B) Acute, toxicity, Inhalation (Category 5)

#### GHS Label elements, including precautionary statements



Warning
Harmful if swallowed
Causes skin irritation
May cause an allergic skin reaction
Causes eye irritation

H333	May be harmful if Inhaled
Precautionary	
statement(s)	
P102	Keep out of reach of children.
P103	Read label before use.
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.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves, protective clothing, eye and face protection.
D201 D212	IF SWALLOWED: Call a POISON CENTER or doctor/ physician if
P301, P312	you feel unwell.
P302, P352	IF ON SKIN wash with plenty of soap and water.
P304, P340	IF INHALED: Remove victim to fresh air and Keep at rest in a
1501,1510	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.
P311	Call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P332, P313	IF SKIN irritation occurs: Get medical advice/attention.
P333, P313	IF SKIN irritation or rash occurs: Get medical advice/attention.
P337, P313	If eye irritation persists, get medical attention.
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403, P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.
P505	Consult SDS before using material.

### **Potential Health Effects**

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**

SYNONYMS

FormulaC13 H22 O3Molecular Weight226.31 g/molCAS-NoEC-NoIndex-No.24851-98-7246-495-9N/A

Concentration 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 unconsious person. Rinse mouth with water.

#### Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

#### Indication of any immediate medical attention and special treatment needed

no data available

### **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 Colour

#### LIQUID COLORLESS TO PALE YELLOW

#### Safety data

Salety uata	
pH	no data available
Melting point (°C)	no data available
Boiling point (°C)	110
Flash point (°F) Closed cup	>200
Ignition temperature	no data available
Autoignitiontemperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure (mm Hg	<0.1
@20 °C)	<0.1
Density @25 °C	1.000
Water solubility	SLIGHT
Partition coefficient:	na data available
n-octanol/water	no data available
Relative vapourdensity	7.8
Odor	FLORAL
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	

**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
Innalation	irritation.
Ingestion	May be harmful if swallowed.
<u>Slain</u>	May be harmful if absorbed through skin May cause skin
Skin	irritation.
Eyes	May cause eye irritation.
Ciana and Commissions of From	

#### 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 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.

Revision Date: 11/01/2020

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### **TECHNICAL DATA SHEET**

PRODUCT NAME: METHYL DIHYDROJASMONATE HC			
PRODUCT CODE: 13-40205			
<b>REV DATE:</b> November 4, 2019	SHELF LIFE: 24 Months	CAS #: 24851-98-7	
FEMA #: 3408	COE #: 10785	Flavis #: 09.520	
IECFA #: 1898 ECHA #: 246-495-9 Food Grade, Kosher, Halal			

TEST	SPECIFICATIONS
MOLECULAR FORMULA	C13 H2 O3
MOLECULAR WEIGHT	226.31
APPEARANCE	COLORLESS TO PALE YELLOW LIQUID
ASSAY (GC; SUM OF ISOMERS)	95.0% MINIMUM
ODOR	FLORAL
BOILING POINT	110° C
FLASH POINT	200+° F
REFRACTIVE INDEX @ 20°C	1.450 - 1.470
SPECIFIC GRAVITY @25°C	0.990 - 1.010
SOLUBILITY	SLIGHTLY SOLUBLE IN WATER; SOLUBLE IN ETHANOL



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September 1, 2021

# ALLERGEN CHECKLIST FOR FOOD SUPPLIERS / MANUFACTURERS

Date:	Product Code:	Manufacturer Location:
Sep 01, 2021	13-40205	Livingston, NJ
Country:	Product Name:	Supplier:
U.S.A	METHYL DIHYDROJASMONATE HC	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>	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** 

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

#### 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.

Image not found or type

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

### **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.

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

# **DIETARY PREFERENCES & RESTRICTIONS**

We hereby declare that the following product:

**Product Name:** METHYL DIHYDROJASMONATE HC **Product Code:** 13-40205

Is suitable for consumption by:

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

 $LACTO-VEGETARIANS \hspace{0.2cm} ( \text{Do not eat meat, poultry, fish/seafood, eggs, but do eat dairy products} )$ 

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)

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

#### 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).

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

#### GMO QUESTIONNAIRE (GENETICALLY MODIFIED ORGANISMS)

**Supplier:** PENTA INTERNATIONAL CORPORATION **Product Name:** METHYL DIHYDROJASMONATE HC **Product Code:** 13-40205

- 1. Is this product, or any of its ingredeints that are used in the manufacturing process, derived from any genetically modified material?<u>NO</u>
- 2. Does the final product, or any of its ingredients, contain any genetically modified material? <u>NO</u>
- 3. Was this product irradiated or contain any irradiated ingredients? <u>NO</u>
- 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: <u>Supplier questionnaire and written certification.</u>

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



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September 1, 2021

#### **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).

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



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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

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

#### **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.

Mark y Vogel

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.

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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.

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



September 1, 2021

#### 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 Ration
- Derived from Sewage Sludge
- Treated with Ethylene Oxide

Mark y Vogel

Mr. Mark J. Volpe **Quality Control Supervisor** 



September 1, 2021

### 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.

Mark & Vogel

Mr. Mark J. Volpe Quality Control Supervisor



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September 1, 2021

#### 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.

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor



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#### SHELF LIFE

PRODUCT NAME: METHYL DIHYDROJASMONATE HC		
PRODUCT CODE: 13-40205		
<b>REV DATE:</b> November 4, 2019	CAS #: 24851-98-7	<b>FEMA #: </b> 3408
COE #: 10785	Flavis #: 09.520	<b>JECFA #:</b> 1898
ЕСНА #: 246-495-9	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.

Mark y Vogel

Mr. Mark J. Volpe Quality Control Supervisor