

A-0080 ALLYL HEPTOATE FCC

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1. IDENTIFICATION

Product Description: ALLYL HEPTOATE FCC

CAS # 142-19-8 **FEMA Number** 2031

Other means of identification

Vigon Item # A-0080

Recommended use Concentrated aromatic and flavor ingredient which may be used in flavor and fragrance

compounds according to legal and IFRA or FEMA GRAS/FDA guidelines.

Category 1

Recommended restrictions For Manufacturing Use Only

Company 24 Hour Emergency Response Information

Vigon International, Inc. INFOTRAC (ACCT# 78928);

127 Airport Road 1-800-535-5053 WITHIN THE U.S.A.
E. Stroudsburg, PA 18301 1-352-323-3500 OUTSIDE THE U.S.A.

For information call: 570-476-6300 Web Site: www.vigon.com

2. HAZARD(S) IDENTIFICATION

Physical hazards Flammable liquids Category 4
Health hazards Acute toxicity, oral Category 4
Acute toxicity, dermal Category 3
Skin corrosion/irritation Category 2
Specific target organ toxicity, repeated Category 2

exposure

Environmental hazards Hazardous to the aquatic environment, Category 1

acute hazard

Hazardous to the aquatic environment,

long-term hazard

Label elements



Signal word Danger

Hazard statement

H227 Combustible liquid.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.



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Precautionary statement

Drawani	
Prevent	lion

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P260 Do not breathe mist or vapor.
P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing.

P280 Wear protective gloves/eye protection/face protection.

Response

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P312 Call a POISON CENTER/doctor if you feel unwell.

P321 Specific treatment (see this label).

P330 Rinse mouth.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P361 + P364 Take off immediately all contaminated clothing and wash it before reuse.

P370 + P378 In case of fire: Use appropriate media to extinguish.

P391 Collect spillage.

Storage

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information None.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Hazardous components Chemical name	Common name and synonyms	CAS number	%
ALLYL HEPTOATE	allyl enanthate ALLYL HEPTANOATE prop-2-enyl heptanoate Heptanoic acid 2-propen-1-yl ester allyl heptylate	142-19-8	100

4. FIRST-AID MEASURES

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or

persist.

Skin contact Take off immediately all contaminated clothing. Get medical attention if irritation develops and

persists. Wash skin thoroughly with soap and water for several minutes.



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Eye contact Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and

persists. Promptly wash eyes with plenty of water while lifting the eye lids.

Ingestion Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if

the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low

Direct contact with eyes may cause temporary irritation. Skin irritation. May cause redness and

so that stomach vomit doesn't enter the lungs.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment

needed

General information

pain. Prolonged exposure may cause chronic effects.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water spray, fog, CO2, dry chemical, or alcohol resistant foam.

Not available.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

Specific hazards arising from

the chemical

Fire may produce irritating, corrosive and/or toxic gases.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full

facepiece operated in the positive pressure demand mode when fighting fires.

Fire-fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.

Specific methodsUse water spray to cool unopened containers.

General fire hazards Static charges generated by emptying package in or near flammable vapor may cause flash fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor.



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Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Prevent product from entering drains. Do not allow material to contaminate ground water system. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.

Conditions for safe storage, including any incompatibilities

Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Individual protection measures, such as personal protective equipment

Eye/face protection Avoid contact with eyes.

Skin protection

Hand protection Chemical resistant gloves.

Other Use of an impervious apron is recommended.

Respiratory protection Chemical respirator with organic vapor cartridge and full facepiece.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations When using do not smoke. Keep away from food and drink. Always observe good personal

hygiene measures, such as washing after handling the material and before eating, drinking, and/or

smoking. Routinely wash work clothing and protective equipment to remove contaminants.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Refer to Spec Sheet

Physical state Liquid. **Form** Liquid.

Color Refer to Spec Sheet

Odor Characteristic. Not available. Odor threshold Not available. pΗ Melting point/freezing point Not available. 410 °F (210 °C) Initial boiling point and boiling

range

175.0 °F (79.4 °C) Closed Cup Flash point

Evaporation rate Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Flammability limit - upper

(%)

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure 0.03 kPa at 25 °C

0.16 mm Hg at 20 °C

Not available.

Not available.

5.9 Vapor density

Relative density Not available.

Solubility(ies)

Solubility (water) Insoluble Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Decomposition temperature Not available. Not available. Viscosity

Other information

Combustible IIIB estimated Flammability class

C10H18O2 Molecular formula 170.25 g/mol Molecular weight Specific gravity 0.88 at 25 °C

10. STABILITY AND REACTIVITY

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.



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Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition

No hazardous decomposition products if stored and handled as indicated.

products

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Ingestion Harmful if swallowed.

Inhalation May cause damage to organs through prolonged or repeated exposure by inhalation.

Skin contact Toxic in contact with skin. Causes skin irritation.

Strong oxidizing agents.

Eye contact Direct contact with eyes may cause temporary irritation. Causes mild eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. May cause redness and pain.

Information on toxicological effects

Acute toxicity Toxic in contact with skin. Harmful if swallowed.

Product Species Test Results

ALLYL HEPTOATE (CAS 142-19-8)

Acute Dermal

LD50 Rabbit 810 mg/kg

Oral

LD50 Mouse 630 mg/kg Remarks:

Behavioral:Somnolence (general

depressed activity).

Rat 500 mg/kg Remarks:

Behavioral:Somnolence (general depressed activity). Behavioral:Ataxia.

Skin corrosion/irritation Causes skin irritation.

Skin - Human - Mild skin irritation - 48 h Skin - rabbit - Moderate skin irritation - 24 h

Humans: No skin irritation @ 2%

Serious eye damage/eye

Direct contact with eyes may cause temporary irritation.

irritation rabbit: Mild eye irritation @ 100%

No eye irritation

^{*} Estimates for product may be based on additional component data not shown.



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Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization Humans: No sensitizing effect @ 2%

Germ cell mutagenicity

Tests on bacterial or mammalian cell cultures did not sure mutagenic effects.

Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicityNo indication of reprotoxic effects in animal tests.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Not available.

Chronic effects May cause damage to organs through prolonged or repeated exposure.

12. ECOLOGICAL INFORMATION

EcotoxicityVery toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.

Product	Species	Test Results
ALLYL HEPTOATE (CAS 142-19-8)		
Aquatic		

Acute

Crustacea EC50 Daphnia magna 0.89 mg/l, 48 hours OECD 202/ ISO

6341

Fish LC50 Fish 0.655 mg/l, 96 hours

Persistence and degradability Not readily biodegradable.

40%/28 d, OECD 301D Readily biodegradable. 83%/34 d, OECD 301F Readily biodegradable. 92%/28 d, OECD 301B

Bioaccumulative potential Not available.

Bioconcentration factor (BCF)

123.4, (calculated)

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

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13. DISPOSAL CONSIDERATIONS

Disposal instructionsDo not discharge into drains, water courses or onto the ground. Do not allow this material to drain

into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or

used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulationsDispose in accordance with all applicable regulations.

Hazardous waste code Not established.

Waste from residues / unused

products

Empty containers or liners may retain some product residues. This material and its container must

be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. TRANSPORT INFORMATION

ADN

UN number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Transport hazard class(es) 6.1(PGIII)

Subsidiary class(es) Packing group III
Environmental hazards Yes
Labels required 6.1

Read safety instructions, SDS and emergency procedures before handling.

ADR

UN number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Transport hazard class(es) 6.1(PGIII)

Subsidiary class(es) Packing group III
Environmental hazards No
Tunnel restriction code E
Labels required 6.1

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

RID

UN number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Transport hazard class(es) 6.1(PGIII)

Subsidiary class(es) Packing group III
Environmental hazards No
Labels required 6.1

Read safety instructions, SDS and emergency procedures before handling.

DOT

BULK

UN number 2810



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Proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Hazard class 6.1(PGIII)

Packing group III

Environmental hazards

Marine pollutant Yes

Special precautions Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions153Packaging non bulk203Packaging bulk241

6.1

DOT

NON-BULK

UN number 2810

Proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Hazard class 6.1(PGIII)

Packing group

Special precautions Read safety instructions, SDS and emergency procedures before handling.

Special provisions IB3, T7, TP1, TP28

Packaging exceptions 153
Packaging non bulk 203
Packaging bulk 241

6.1

IATA

UN number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Transport hazard class(es) 6.1(PGIII)

Subsidiary class(es) - Packing group |||

Environmental hazards Not available.

Labels required 6.1 **ERG code** 6L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IMDG

UN number 2810

UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (ALLYL HEPTOATE)

Transport hazard class(es) 6.1(PGIII)

Subsidiary class(es) Packing group III
Environmental hazards

Marine pollutant Yes
Labels required 6.1
EmS F-A, S-A

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.



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Transport in bulk according

Not applicable.

to Annex II of MARPOL 73/78 and the IBC Code

Read safety instructions, SDS and emergency procedures before handling.

ADN; ADR; DOT BULK; DOT NON-BULK; IATA; IMDG; RID



Marine pollutant



15. REGULATORY INFORMATION

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No



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SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes



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Country(s) or region Inventory name On inventory (yes/no)*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

 Issue date
 10-27-2014

 Revision date
 10-27-2014

Version # 01

HMIS® ratings Health: 2*

Flammability: 2 Physical hazard: 0

Disclaimer The information in the sheet was written based on the best knowledge and experience currently

available. The above information relates only to this product and not to its use in combination with any other material or any particular process and is designed only as guidance for the safe handling, use, processing, storage, transportation, disposal, and should not be considered as a guarantee or quality specification. The above information is based on data provided by and collected from recognized sources such as distributors, manufacturers, and technical groups and is considered to be accurate to the best of Vigon's knowledge as of the date of this document. It is the responsibility of the user to review all safety information about this product and determine its safety and suitability in their own processes and operations. Appropriate warnings and safe handling procedures should be provided to all handlers and users, taking into account the intended use and the specific conditions and factors relating to such use in accordance with all applicable

laws and regulations.