

# 500003 ALDEHYDE C-10 FCC

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#### **1. IDENTIFICATION Product Description:** ALDEHYDE C-10 FCC CAS# 112-31-2 2362 **FEMA Number** Other means of identification Vigon Item # 500003 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. **Recommended restrictions** For Manufacturing Use Only Company 24 Hour Emergency Response Information Vigon International, LLC INFOTRAC (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A. 127 Airport Road 1-352-323-3500 OUTSIDE THE U.S.A. E. Stroudsburg, PA 18301 For information call: 570-476-6300 Web Site: www.vigon.com Manufacturer/Importer/Supplier/Distributor information Manufacturer Vigon International, LLC Company name Address 127 Airport Road E. Stroudsburg, PA 18301 **United States** Telephone 570-476-6300 For information call: Website www.vigon.com E-mail regulatory@vigon.com **INFOTRAC** Emergency phone number (ACCT# 78928); 1-800-535-5053 WITHIN THE U.S.A. 1-352-323-3500 OUTSIDE THE U.S.A. 2. HAZARD(S) IDENTIFICATION Physical hazards Flammable liquids Category 4 Skin corrosion/irritation Health hazards Category 3 Serious eye damage/eye irritation Category 2A **Environmental hazards** Hazardous to the aquatic environment, acute Category 2 hazard Hazardous to the aquatic environment, Category 3 long-term hazard

Label elements





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Signal word	Warning
Hazard statement	Combustible liquid. Causes serious eye irritation. Toxic to aquatic life. Harmful to aquatic life with long lasting effects. Causes mild skin irritation.
Precautionary statement	
Prevention	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from flames and hot surfaces No smoking. Wash thoroughly after handling. Avoid release to the environment. Wear eye protection/face protection. Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.
Response	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER/doctor if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media for extinction.
Storage	Store in a well-ventilated place. Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations. Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	After prolonged contact with highly porous materials, this product may spontaneously combust.
Supplemental information	100% of the substance consists of component(s) of unknown acute inhalation toxicity.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Chemical name	Common name and synonyms	CAS number	%
DECANAL	CAPRINIC ALDEHYDE DECYL ALDEHYDE DECYLIC ALDEHYDE	112-31-2	100
	1-DECANAL C-10 ALDEHYDE CAPRIC ALDEHYDE		

### 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. Move to fresh air.
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. Wash off with soap and water. Get medical attention if irritation develops and persists.
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. If eye irritation persists: Get medical advice/attention. Immediately flush eyes with plenty of water for at least 15 minutes. Continue rinsing. Rinse with water.
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 so that stomach vomit doesn't enter the lungs. Rinse mouth. Get medical attention if symptoms occur.



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Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Direct contact with eyes may cause temporary irritation. Mild skin irritation.	
Indication of immediate medical attention and special treatment needed	Not available. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. FIRE-FIGHTING MEASURES		
Suitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	

Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire. Do not use water jet as an
	extinguisher, as this will spread the fire.

Specific hazards arising from<br/>the chemicalFire may produce irritating, corrosive and/or toxic gases. Porous material such as rags, paper,<br/>insulation, or organic clay may spontaneously combust when wetted with this material. The<br/>product is combustible, and heating may generate vapors which may form explosive vapor/air<br/>mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Firefighters Bield, 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. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

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

Specific methods Use water spray to cool unopened containers.

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

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Wear appropriate protective equipment and clothing during clean-up. Local authorities should be advised if significant spillages cannot be contained. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). For personal protection, see section 8 of the SDS.



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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.
	Large Spills: Dike the spilled material, where this is possible. Collect and dispose of spillage as indicated in section 13 of the SDS.
	Absorb in vermiculite, dry sand or earth and place into containers. Prevent product from entering drains.
	Small Spills: Clean surface thoroughly to remove residual contamination. Wipe up with absorbent material (e.g. cloth, fleece).
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Stop the flow of material, if this is without risk. Cover with plastic sheet to prevent spreading. Following product recovery, flush area with water.
	Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent entry into waterways, sewer, basements or confined areas. The product is immiscible with water and will spread on the water surface.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid release to the environment. Retain and dispose of contaminated wash water. Contact local authorities in case of spillage to drain/aquatic environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Avoid discharge into drains, water courses or onto the ground.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Do not handle or store near an open flame, heat or other sources of ignition. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. May auto-oxidize with sufficient heat generation to ignite if spread (as a thin film) or absorbed on porous or fibrous material. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Contaminated rags and cloths must be put in fireproof containers for disposal. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling. Provide adequate ventilation. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices. Avoid contact with eyes. Keep away from open flames, hot surfaces and sources of ignition. When using do not smoke.

Conditions for safe storage, including any incompatibilities Do not store in direct sunlight. Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area. Keep under a nitrogen blanket. Store away from incompatible materials (see Section 10 of the SDS). Keep container tightly closed. Keep away from heat, sparks and open flame. Store in cool place. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store in a cool, dry place out of direct sunlight. Store in tightly closed container.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Wear safety glasses with side shields (or goggles). Wear safety glasses with side shields (or goggles). If contact is likely, safety glasses with side shields are recommended.
Skin protection	
Hand protection	Chemical resistant gloves. For prolonged or repeated skin contact use suitable protective gloves. Wear protective gloves. Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.
Other	Wear suitable protective clothing.
Respiratory protection	Respiratory protection not required. If ventilation is insufficient, suitable respiratory protection must be provided. In case of insufficient ventilation, wear suitable respiratory equipment. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. 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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Refer to Spec Sheet	
Physical state	Liquid.	
Form	Liquid.	
Color	Refer to Spec Sheet	
Odor	Characteristic.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	62.6 °F (17 °C) / 23 °F (-5 °C)	
Initial boiling point and boiling range	413.6 °F (212 °C)	
Flash point	180.0 °F (82.2 °C) Closed Cup	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not applicable.	
Upper/lower flammability or explosive limits		
Explosive limit - lower (%)	Not available.	



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Explosive limit - upper (%)	Not available.
Vapor pressure	0.15 mm Hg at 20 °C
Vapor density	5.4
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Insoluble
Partition coefficient	3.76
(n-octanol/water)	
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.83 g/cm3 estimated at 15 °C
Dynamic viscosity	1.8 mPa.s
Explosive properties	Not explosive.
Flammability class	Combustible IIIA estimated
Kinematic viscosity	2.169 mm <sup>2</sup> /s estimated
Molecular formula	C10-H20-O
Molecular weight	156.27 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.83 at 25 °C

## **10. STABILITY AND REACTIVITY**

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material. Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials. Avoid temperatures exceeding the flash point.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products if stored and handled as indicated.

## **11. TOXICOLOGICAL INFORMATION**

Information on likely routes of exposure		
Inhalation	Knowledge about health hazard is incomplete.	
Skin contact	Causes mild skin irritation.	
Eye contact	Causes serious eye irritation. Causes mild eye irritation. Direct contact with eyes may cause temporary irritation.	
Ingestion	Not available.	



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Symptoms related to the physical, chemical and toxicological characteristics       Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Mild skin irritation.         Information on toxicological effects       Not known.         Product       Species       Test Results         DECANAL (CAS 112-31-2)       Acute
Acute toxicity     Not known.       Product     Species     Test Results       DECANAL (CAS 112-31-2)
Product     Species     Test Results       DECANAL (CAS 112-31-2)
DECANAL (CAS 112-31-2)
Acute
Dermal
LD50 Rabbit 5040 mg/kg
Oral
LD50 Rat 3730 mg/kg
Skin corrosion/irritation Causes mild skin irritation.
Serious eye damage/eye Causes serious eye irritation. Direct contact with eyes may cause temporary irritation. irritation
Respiratory or skin sensitization
<b>Respiratory sensitization</b> Due to partial or complete lack of data the classification is not possible.
Skin sensitization Due to partial or complete lack of data the classification is not possible.
<b>Germ cell mutagenicity</b> Due to partial or complete lack of data the classification is not possible.
Carcinogenicity Due to partial or complete lack of data the classification is not possible.
IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed. US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.
<b>Reproductive toxicity</b> Due to partial or complete lack of data the classification is not possible.
<b>Specific target organ toxicity -</b> Due to partial or complete lack of data the classification is not possible.
single exposure
Specific target organ toxicity -Due to partial or complete lack of data the classification is not possible.repeated exposure
Aspiration hazard Due to partial or complete lack of data the classification is not possible.
12. ECOLOGICAL INFORMATION
<b>Ecotoxicity</b> Toxic to aquatic life. Harmful to aquatic life with long lasting effects.
Persistence and degradability No data is available on the degradability of this substance.
Bioaccumulative potential
Partition coefficient n-octanol / water (log Kow)

3.76

Mobility in soil

No data available.



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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.	
13. DISPOSAL CONSIDERATIONS		
Disposal instructions	Do 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. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.	
Local disposal regulations	Dispose in accordance with all applicable regulations.	
Hazardous waste code	Not established. The waste code should be assigned in discussion between the user, the producer and the waste disposal company.	
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). Dispose of in accordance with local regulations.	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

## **14. TRANSPORT INFORMATION**

General ADN	IMDG Regulated Marine Pollutant.
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECANAL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9
ADR	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECANAL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	Yes
Labels required	9
RID	
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECANAL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing Group	III
Environmental Hazards	Yes
Labels required	9
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.



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## DOT

BULK	
UN number	NA1993
Proper shipping name	COMBUSTIBLE LIQUID, N.O.S. (DECANAL)
Hazard class	Combustible Liquid
Packing group	III
Environmental hazards	
Marine pollutant	Yes

## DOT

NON-BULK

Not regulated as dangerous goods.

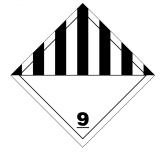
### IATA

Not regulated as dangerous goods.

### IMDG

	2002
UN number	3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DECANAL)
Transport hazard class(es)	9
Subsidiary class(es)	-
Packing group	III
Environmental hazards	
Marine pollutant	Yes
Labels required	9
Transport in bulk according	Not applicable.
to Annex II of MARPOL	
73/78 and the IBC Code	

### ADN; ADR; IMDG; RID





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#### Marine pollutant



**General information** 

IMDG Regulated 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.

Toxic Substances Control Act (TSCA)

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

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

#### SARA 304 Emergency release notification

#### Not regulated.

#### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

#### chemical

Classified hazardFlammable (gases, aerosols, liquids, or solids)categoriesSerious eye damage or eye irritation

#### 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)

### 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION



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Revision Date: 05-23-2022 Page 11 of 11 Version # 05 Print Date: 05-23-2022 **Revision date** 05-23-2022 Version # 05 **HMIS®** ratings Health: 2 Flammability: 2 Physical hazard: 0 List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists. ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road. AICIS: Australian Inventory of Industrial Chemicals. CAS: Chemical Abstract Service. IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk. IMDG: International Maritime Dangerous Goods. MARPOL: International Convention for the Prevention of Pollution from Ships. RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. STEL: Short term exposure limit. TWA: Time Weighted Average. Vigon International, LLC cannot anticipate all conditions under which this information and its Disclaimer product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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, and disposal and should not be considered as a guarantee or quality specification. This product has not been evaluated for safe use in e-cigarettes or any vaping application where the product(s) is/are intentionally vaporized and inhaled. Vigon International, Inc. has performed no testing on these products in e-cig/vaping applications. It is the sole responsibility of the individual(s) purchasing this product to assess its' safety in the final application. 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 guality 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. **Revision information** This document has undergone significant changes and should be reviewed in its entirety.