

Material Safety Data Sheet

Aldehyde C-10 (Decanal)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Aldehyde C-10

Chemical Name: Decanal

Synonyms: Decyl Aldehyde, Capric Aldehyde, Aldehyde C-10

CAS No.: 112-31-2

EC No.: 203-957-4

Molecular Formula: C₁₀H₂₀O

Molecular Weight: 156.27 g/mol

Grade: Cosmetic / Fragrance Grade

Recommended Use: Fragrance, perfumery and cosmetic raw material.

Country of Origin: India

Grade: Cosmetic / Perfumery Grade

Supplier: Botanic Planet Canada Inc.

Address: 2 Bram Crt Unit # 3-4 Brampton, Ontario, Canada

Telephone number: 905-455-4444

Emergency phone number (613)-996-6666 CANUTEC 24 HOUR EMERGENCY

SECTION 2 – HAZARD IDENTIFICATION

GHS Classification:

- Skin Irritation — Category 2
- Skin Sensitization — Category 1B
- Hazardous to the Aquatic Environment, Chronic — Category 2

Signal Word: WARNING



Hazard Statements:

H315: Causes skin irritation.

H317: May cause an allergic skin reaction.

H319: Causes serious eye irritation.

H411: Toxic to aquatic life with long-lasting effects.

Precautionary Statements: Avoid breathing vapours or mist. Avoid contact with eyes and prolonged contact with skin. Wear protective gloves and eye protection. Avoid release to the environment. Wash thoroughly after handling.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS No.	EC No.	Concentration
Decanal	112-31-2	203-957-4	≥98%

SECTION 4 – FIRST-AID MEASURES

Eye Contact: Rinse cautiously with clean water for at least 15 minutes. Remove contact lenses if easily possible. Continue rinsing. Obtain medical attention if irritation persists.

Skin Contact: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical attention if irritation or allergic reaction develops.

Inhalation: Move affected person to fresh air. Keep comfortable for breathing. Obtain medical attention if symptoms persist.

Ingestion: Rinse mouth. Do not induce vomiting unless directed by medical personnel. Contact a physician or poison centre if unwell.

SECTION 5 – FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Carbon dioxide (CO₂), dry chemical, foam or water spray.

Specific Hazards: Combustion may generate carbon monoxide, carbon dioxide and irritating fumes.

Protective Equipment: Firefighters should wear appropriate protective clothing and self-contained breathing apparatus when necessary.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Provide adequate ventilation. Remove unnecessary ignition sources.

Wear suitable gloves, eye protection and protective clothing.

Contain spilled material using sand, vermiculite or another suitable inert absorbent. Transfer collected material into an appropriate closed container for disposal.

Prevent concentrated material from entering drains, waterways or soil.

SECTION 7 – HANDLING AND STORAGE

Avoid direct contact with eyes and skin. Avoid breathing concentrated vapour or mist.

Use with adequate ventilation.

Keep container tightly closed when not in use.

Storage: Store in a cool, dry and well-ventilated area, protected from direct sunlight and excessive heat.

Keep away from strong oxidizing agents and incompatible materials.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Provide adequate general or local exhaust ventilation.

Eye Protection: Safety glasses or chemical goggles.

Hand Protection: Chemical-resistant protective gloves.

Skin Protection: Suitable protective clothing.

Respiratory Protection: Normally not required under adequately ventilated conditions. Appropriate respiratory protection should be used if significant vapour or aerosol exposure is possible.

Hygiene: Wash hands thoroughly after handling. Do not eat, drink or smoke while handling concentrated raw material.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Appearance	Colorless to pale yellow clear liquid
Physical State	Liquid
Odor	Strong, fresh, citrus, waxy, aldehydic
Molecular Formula	$C_{10}H_{20}O$
Molecular Weight	156.27 g/mol
Specific Gravity	Approx. 0.827–0.835
Refractive Index @ 20°C	Approx. 1.425–1.432
Boiling Point	Approx. 207–209°C
Flash Point	Approx. 82–93°C, depending on test method/source
Water Solubility	Practically insoluble
Solubility in Alcohol	Soluble

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable under recommended storage and handling conditions.

Conditions to Avoid: Excessive heat, direct sunlight and prolonged exposure to air.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, carbon dioxide and irritating fumes may form during combustion.

Hazardous Polymerization: Not expected under normal conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Skin contact, eye contact, inhalation and ingestion.

Skin: May cause irritation. May cause an allergic skin reaction in susceptible individuals.

Eyes: May cause serious irritation.

Inhalation: Concentrated vapour or mist may irritate the respiratory tract.

Finished cosmetic products should be evaluated according to the actual concentration of Decanal and intended application.

SECTION 12 – ECOLOGICAL INFORMATION

Aquatic Hazard: Toxic to aquatic life with long-lasting effects.

Avoid uncontrolled release of concentrated Aldehyde C-10 into the environment.

Do not discharge bulk material directly into drains, surface water or soil.

SECTION 13 – DISPOSAL CONSIDERATIONS

Dispose of unused product, contaminated absorbent material and packaging according to applicable federal, provincial and local regulations.

Do not dispose of concentrated material directly into drains or waterways.

SECTION 14 – TRANSPORT INFORMATION

Transport classification can depend on the exact composition, quantity, packaging and jurisdiction.

For commercial shipment, the manufacturer's current product-specific SDS should be used to establish the applicable UN number, transport class, packing group and environmental-hazard designation under TDG, DOT, IATA and IMDG requirements.

SECTION 15 – REGULATORY INFORMATION

Product: Aldehyde C-10 (Decanal)

CAS No.: 112-31-2

EC No.: 203-957-4

Intended for use as a fragrance/perfumery and cosmetic raw material.

Finished-product manufacturers are responsible for ensuring compliance with applicable cosmetic legislation, fragrance-allergen requirements and current IFRA Standards for the intended product category.

SECTION 16 – OTHER INFORMATION

Product: Aldehyde C-10 (Decanal)

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Formula: $C_{10}H_{20}O$

Molecular Weight: 156.27 g/mol

Grade: Cosmetic / Fragrance Grade



This product is a 100% pure and natural. It does not contain any artificial ingredients or adulteration of any kind to the best of our knowledge and specifications. The analysis and statements herein constitute the most complete information available to Botanic Planet Canada Inc. Please refer to all relevant technical information specific to the product, prior to use. This information contained in this material safety Data sheet is obtained from current and reliable sources. As an ordinary or otherwise user(s) of this product is outside the control of Botanic Planet Canada Inc., no representation or warranty, expressed or implied is made as to the effect(s) of such use (s) (including damages or injury) or any obtained. Botanic Planet Canada Inc. expressly disclaims responsibility as to the ordinary or otherwise uses. Furthermore, Botanic Planet Canada Inc. makes no claims as to the fitness for any use, and you should consider nothing container herein as a recommendation. The Liability of botanic Planet Canada Inc. is limited to the value of the goods and does not include any consequential loss. In the event of any dispute, the Customer hereby agrees that Jurisdiction is limited to the province of Ontario Canada.

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