SAFETY DATA SHEET (SDS)

Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) 2020/878 and GHS.

Aldehyde C-6 Natural

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE COMPANY/UNDERTAKING

SECTION 1. IDENTIFICATION

Parameter	Details
Product Description	Aldehyde C-6 Natural
CAS Number	66-25-1
FEMA Number	2557
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.

Supplier:
Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

SECTION 2. HAZARD(S) IDENTIFICATION

Physical Hazards

Flammable liquids — Category 3

Health Hazards

Acute toxicity, oral — Category 5
Skin corrosion/irritation — Category 2
Serious eye damage/eye irritation — Category 2A
Sensitization, skin — Category 1

Environmental Hazards: Not classified.

Signal Word: Warning

Hazard Statements

Flammable liquid and vapor.
May be harmful if swallowed.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.

Precautionary Statements — Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Keep container tightly closed. Keep cool.
Ground and bond container and receiving equipment.
Use explosion-proof electrical/ventilating/lighting equipment.
Use non-sparking tools. Take action to prevent static discharges.
Avoid breathing mist/vapors. Wash thoroughly after handling.
Contaminated work clothing should not be allowed out of the workplace.
Wear eye protection/face protection and protective gloves.

Response

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

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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 or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash it before reuse.

In case of fire: Use appropriate media to extinguish.

Storage

Store in a well-ventilated place. Keep cool.

Disposal

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

Hazards Not Otherwise Classified

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 dermal toxicity.

100% of the substance consists of component(s) of unknown acute inhalation toxicity.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Common Names and Synonyms	CAS Number	%
HEXANAL	CAPROIC ALDEHYDE; N-HEXALDEHYDE; ALDEHYDE C-6; HEXALDEHYDE; HEXOIC ALDEHYDE	66-25-1	100

SECTION 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.

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 eyelids.

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, keep the head low to prevent stomach contents from entering the lungs.

Most Important Symptoms and Effects

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision.

Skin irritation, redness and pain.
May cause allergic skin reaction, dermatitis and rash.

Immediate Medical Attention and Special Treatment
Not available.

General Information

Ensure medical personnel are aware of the material involved and take appropriate precautions.
Show this safety data sheet to the attending doctor.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Water spray, fog, CO_2, dry chemical or alcohol-resistant foam.

Unsuitable Extinguishing Media
Do not use a solid water stream, as it may scatter and spread fire.

Specific Hazards

Fire may produce irritating, corrosive and/or toxic gases.
Porous materials such as rags, paper, insulation or organic clay may spontaneously combust when wetted with this material.
Static charges generated by emptying packaging in or near flammable vapour may cause a flash fire.

Firefighter Protection

Use standard protective equipment including flame-retardant coat, helmet with face shield, gloves and rubber boots.
Use self-contained breathing apparatus in enclosed spaces.

Fire-Fighting Instructions

Do not breathe fumes.
Use standard firefighting procedures.
Move containers from the fire area if this can be done without risk.
Water runoff can cause environmental damage.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions

Eliminate all sources of ignition.
Avoid contact with skin and inhalation of spilled material or vapour.

Keep unnecessary personnel away.
Wear appropriate protective clothing.
Ventilate enclosed spaces before entering.

Containment and Cleaning

Collect and dispose of spillage as indicated in Section 13.
Stop the flow of material if this can be done without risk.
Dike spilled material where possible.
Absorb with an inert absorbent such as dry clay, sand or diatomaceous earth.

Environmental Precautions

Retain and dispose of contaminated wash water.
Avoid release to the environment.
Contact local authorities in the event of spillage into drains or aquatic environments.
Prevent further leakage if safe.
Do not contaminate water.

SECTION 7. HANDLING AND STORAGE

Handling

Do not handle or store near open flames, heat or other ignition sources.
Porous materials such as rags, paper, insulation or organic clay may spontaneously combust when wetted with this material.
The material may auto-oxidize with sufficient heat generation to cause ignition.

Storage

Do not store in direct sunlight.
Keep containers closed.
Handle containers carefully.
Open slowly to control possible pressure release.
Store in a cool, well-ventilated area.
Keep under a nitrogen blanket.

SECTION 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.

Engineering Controls
Use explosion-proof ventilation equipment.

Eye/Face Protection
Wear safety glasses with side shields or goggles.
Face shield recommended.

Hand Protection
Chemical-resistant gloves.

Body Protection
Impervious apron recommended.

Respiratory Protection
Not required under normal conditions.
If ventilation is insufficient, suitable respiratory protection must be provided.

Thermal Protection
Wear appropriate thermal protective clothing when necessary.

General Hygiene
Do not smoke while using.
Keep away from food and drink.
Wash after handling and before eating, drinking or smoking.
Routinely wash work clothing and protective equipment.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Refer to Spec Sheet
Physical State	Liquid
Form	Liquid
Color	Refer to Spec Sheet
Odor	Characteristic
Odor Threshold	Not available
pH	Not available
Melting Point / Freezing Point	-68.8°F (-56°C)
Initial Boiling Point / Range	267.8°F (131°C)
Flash Point	90.0°F (32.2°C), Closed Cup
Evaporation Rate	Not available
Flammability (Solid, Gas)	Not applicable
Lower Explosive Limit	Not available
Upper Explosive Limit	Not available
Vapor Pressure	10.9 mm Hg at 25°C
Vapor Density	3.45
Relative Density	Not available

Water Solubility	Insoluble
Partition Coefficient (n-Octanol/Water)	1.78
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Density	0.83 g/cm³ estimated at 20°C
Explosive Properties	Not explosive
Flammability Class	Flammable IC estimated
Molecular Formula	C6-H12-O
Molecular Weight	100.18 g/mol
Oxidizing Properties	Not oxidizing
Specific Gravity	0.81 at 25°C

SECTION 10. STABILITY AND REACTIVITY

Reactivity
Stable and non-reactive under normal conditions of use, storage and transport.

Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions
No dangerous reactions known under normal conditions of use.

Conditions to Avoid
Porous materials such as rags, paper, insulation or organic clay may spontaneously combust when wetted with this material.

Incompatible Materials
Strong oxidizing agents.

Hazardous Decomposition Products
No hazardous decomposition products if stored and handled as indicated.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Route	Information
Inhalation	Knowledge about health hazard is incomplete
Skin Contact	Causes skin irritation; may cause an allergic skin reaction
Eye Contact	Causes serious eye irritation; causes mild eye irritation

Ingestion	May be harmful if swallowed

Symptoms

Severe eye irritation, stinging, tearing, redness, swelling and blurred vision.
Skin irritation, redness, pain, dermatitis and rash.

Acute Toxicity

May be harmful if swallowed.

Test	Species	Result
Acute Oral LD50	Rat	4890 mg/kg

Skin Corrosion/Irritation
Causes skin irritation.

Serious Eye Damage/Irritation
Causes serious eye irritation.

Respiratory Sensitization
Classification is not possible due to partial or complete lack of data.

Skin Sensitization
May cause an allergic skin reaction.

Germ Cell Mutagenicity
Classification is not possible due to partial or complete lack of data.

Carcinogenicity
Classification is not possible due to partial or complete lack of data.
Not listed by IARC, OSHA specifically regulated substances or the US National Toxicology Program.

Reproductive Toxicity
Classification is not possible due to partial or complete lack of data.

Specific Target Organ Toxicity — Single Exposure
Classification is not possible due to partial or complete lack of data.

Specific Target Organ Toxicity — Repeated Exposure
Classification is not possible due to partial or complete lack of data.

Aspiration Hazard
Classification is not possible due to partial or complete lack of data.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. Large or frequent spills may nevertheless have harmful environmental effects.

Test	Species	Result
Acute Aquatic Toxicity — Fish LC50	Fathead minnow (*Pimephales promelas*)	21–23 mg/L, 96 hours

Persistence and Degradability
No data available.

Bioaccumulative Potential
Partition coefficient n-octanol/water (log Kow): 1.78.

Mobility in Soil
No data available.

Other Adverse Effects

No other adverse environmental effects, including ozone depletion, photochemical ozone creation potential, endocrine disruption or global warming potential, are expected from this component

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Instructions

Do not discharge into drains, watercourses or onto the ground.
Do not allow this material to enter sewers or water supplies.
Do not contaminate ponds, waterways or ditches with chemicals or used containers.
Dispose of contents and containers in accordance with applicable regulations.

Local Disposal Regulations
Dispose in accordance with all applicable regulations.

Hazardous Waste Code
Not established.

Waste from Residues / Unused Products

Empty containers or liners may retain product residues.
Dispose of the material and its containers safely.

Contaminated Packaging

Follow label warnings even after containers have been emptied.

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

SECTION 14. TRANSPORT INFORMATION

Transport Mode	UN Number	Proper Shipping Name	Class	Packing Group	Environmental Hazard
ADN	1207	HEXALDEHYDE	3	III	No
ADR	1207	HEXALDEHYDE	3	III	No
RID	1207	HEXALDEHYDE	3	III	No
DOT Bulk	1207	HEXALDEHYDE	3	III	No
DOT Non-Bulk	1207	HEXALDEHYDE	3	III	No
IATA	1207	HEXALDEHYDE	3	III	No
IMDG	1207	HEXALDEHYDE	3	III	No

Subsidiary Class: None

Labels Required: Class 3

Marine Pollutant: No

DOT Packaging Exceptions: 150
DOT Bulk Packaging: 242
DOT Non-Bulk Packaging: 203

Special Precautions for User

Read safety instructions, SDS and emergency procedures before handling.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15. REGULATORY INFORMATION

US Federal Regulations

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

Regulation	Status
TSCA Section 12(b) Export Notification	Not regulated
CERCLA Hazardous Substance List	Not listed
SARA 304 Emergency Release Notification	Not regulated

OSHA Specifically Regulated Substances	Not listed
SARA 302 Extremely Hazardous Substance	Not listed
SARA 311/312 Hazardous Chemical	Yes
SARA 313 TRI Reporting	Not regulated
Clean Air Act Section 112 HAPs	Not regulated
Clean Air Act Section 112(r) Accidental Release Prevention	Not regulated
Safe Drinking Water Act	Not regulated

SARA 311/312 Classified Hazard Categories

Flammable (gases, aerosols, liquids or solids)

Skin corrosion or irritation

Serious eye damage or eye irritation

Hazard not otherwise classified (HNOC)

SECTION 16. OTHER INFORMATION

Parameter	Details
Original Issue Date	11-30-2015
Revision Date	08-01-2024
Version	04
HMIS Health	2
HMIS Flammability	3
HMIS Physical Hazard	1

Original Supplier Disclaimer

Aromology cannot anticipate all conditions under which this information and its product, or 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.

Revision Information

This document has undergone significant changes and should be reviewed in its entirety.

Authorised by:
Fozia Khot
Director