

For Chemical Emergencies During Transportation:
USA and Canada: Call CHEMTREC 24 Hours at 1-800-424-9300
International: Call CHEMTREC 24 Hours at 1-703-527-3887
Account Number: CCN709805

1. PRODUCT AND COMPANY INFORMATION

Product Name: ALDEHYDE C-12 MNA
Product Code: 10472
CAS #: 110-41-8

Company Name: The Lermond Company, LLC
13 Raritan Road
Oakland, NJ 07436
Phone: 201-896-3300

2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health Hazards	Serious eye damage/eye irritation Sensitization, skin	Category 2A Category 1
Environmental hazards	Hazardous to the aquatic environment, acute hazard	Category 1



Label elements

Signal word Warning

Hazard statement	H317:	May cause an allergic skin reaction.
	H319:	Causes serious eye irritation.
	H400:	Very toxic to aquatic life.
	H410:	Very toxic to aquatic life with long lasting effects.

Precautionary statement

Prevention

P261:	Avoid breathing mist or vapor.
P264:	Wash thoroughly after handling.
P272:	Contaminated work clothing should not be allowed out of the workplace.
P273:	Avoid release to the environment.
P280:	Wear eye protection/face protection. Wear protective gloves.

Response	P302+P352: P305+P351+P338	IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P333+P313 P337+P313 P261+P264	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.
Storage	P405:	Store away from incompatible materials.
Disposal	P501:	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.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: ALDEHYDE C-12 MNA 100% CAS Number: 110-41-8

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 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 so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects, acute and delayed:	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.
Indication of immediate Medical attention and Special treatment needed:	Not available.
General information:	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

Flash Point: > 200.0 °F (> 93.3 °C) Closed Cup

Suitable

Extinguishing Media: Water spray, fog, CO2, 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 arising from the Chemical:

Fire may produce irritating, corrosive and/or toxic gases. Porous material such as rags, paper, insulation, or organic clay may spontaneously combust when wetted with this material.

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 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.

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. For personal protection, see section 8 of the SDS.

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: 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. 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 to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions:

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. HANDLING AND STORAGE

- 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.
- Safe Storage:** Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

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:** Good general ventilation (typically 10 air changes per hour) 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 easy access to water supply and eye wash facilities.
- Individual protection measures, such as personal protective equipment:**
- Eye/face protection:** Wear safety glasses with side shields (or goggles) and a face shield.
- Skin protection:**
- Hand protection:** Wear appropriate chemical resistant gloves.
- Other:** Wear appropriate chemical resistant clothing. Use of an impervious apron recommended.
- Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- Thermal hazards:** Wear appropriate thermal protective clothing, when necessary.
- General hygiene Considerations:** Contaminated work clothing should not be allowed out of the workplace.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance:** Colorless Liquid
- Vapor density:** 7.4
- Relative Density:** Not available.
- Melting point:** Not available.
- Flash point:** > 200.0 °F (> 93.3 °C) Closed Cup
- Boiling point:** 500 °F (260 °C)

10. STABILITY AND REACTIVITY

- Reactivity:** The product is stable and non-reactive under normal conditions of use, storage and transport.
- 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.**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:** No adverse effects due to inhalation are expected.**Skin contact:** May cause an allergic skin reaction.**Eye contact:** Causes serious eye irritation. Causes mild eye irritation.**Ingestion:** Expected to be a low ingestion hazard.**Symptoms related to the physical, chemical and toxicological Characteristics:** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction. Dermatitis. Rash.**Information on toxicological effects****Acute toxicity** Not known.

Components	Species	Test Results
ALDEHYDE C-12 MNA		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 5000 mg/kg
<i>Oral</i>		
LD50	Rat	> 5000 mg/kg

Skin Corrosion/irritation: Irritation (dermal, guinea pig) : mild irritant @ 5%, moderate irritant @ 10%
Irritation (Human max): non irritant @ 4%
severe irritant @ 30% and 50%**Serious eye damage/eye Irritation:** Causes serious eye irritation.**Respiratory or skin sensitization:****Respiratory sensitization:** Not a respiratory sensitizer.**Skin sensitization:** May cause an allergic skin reaction.
Sensitization (OET)(OECD 406): non sensitizing @ 4%
Sensitization (Human max.): non sensitizing @ 4%
Photo-toxicity (guinea pig): No effects

Germ cell mutagenicity: No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity:
OSHA specifically Regulated Substances (29 CFR 1910.1001-1050)
Not listed.

Reproductive toxicity: This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity- single exposure: Not classified.

Specific target organ toxicity- repeated exposure: Not classified.

Aspiration hazard: Not an aspiration hazard.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Very toxic to aquatic life with long lasting effects.

Persistence and degradability: Readily biodegradability (OECD 301B): 68.1%
Readily biodegradability (OECD 301D): 55%

Bioaccumulative Potential: No data available.

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.

13. DISPOSAL CONSIDERATIONS

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 regulations: Dispose in accordance with all applicable regulations.

Hazardous waste code: The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues/unused products Dispose of in accordance with local regulations. 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

Ground Shipping (DOT): BULK

Proper Shipping Name: ALDEHYDE C-12 MNA
Hazard Class: 9
UN Number: 3082
Packing Group: III

Air shipping (IATA): Not regulated as dangerous goods.

Ocean Shipping (IMDG):

Proper Shipping Name: ALDEHYDE C-12 MNA
Hazard Class: 9
UN Number: 3082
Packing Group: III

15. REGULATORY INFORMATION

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

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

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Not listed.

SARA 302 Extremely hazardous substance

Not listed.

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 (SDWA)

Not regulated.

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
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies 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).

16. OTHER INFORMATION

Disclaimer: This information is provided for documentation purposes only.

The complete range of conditions or methods of use are beyond our control therefore we do not assume any responsibility and expressly disclaim any liability for any use of this product. Information contained herein is believed to be true and accurate however, all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with all applicable federal, state, and local laws and local regulations remains the responsibility of the user.

This safety sheet cannot cover all possible situations that the user may experience during processing. Each aspect of your operation should be examined to determine if, or where, additional precautions may be necessary. All health and safety information contained in this bulletin should be provided to your employees or custom