Dynalene LO-230

1. Product and Company Identification

1.1 Product identifiers

Product Name: Dynalene LO-230
Producer: Dynalene, Inc.
Product Number: Not available.
CAS-No.: Not available.

1.2 Identified uses of the product and uses advised against

Identified Uses: Heat transfer fluid.

1.3 Details of the chemical supplier

Company: Dynalene, Inc.
5250 West Coplay Road
Whitehall, PA 18052
USA
Telephone: +1 610-262-9686
Fax: +1 610-262-7437

1.4 Emergency telephone number

Within the U.S.: +1 800-424-9300 (CHEMTREC)
Outside the U.S.: +1 703-527-3887 (CHEMTREC)

2. Hazards Identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)
Aspiration hazard (Category 1), H304

2.2 GHS Label elements, including precautionary statements

Pictogram:

Signal word: Danger

Hazard statement(s)
H304 May be fatal if swallowed and enters airways.

Precautionary statement(s)
P301+P316, P331: IF SWALLOWED: Get emergency medical help immediately. Do NOT induce vomiting.

P405, P501: Store locked up. Dispose of contents/container to an approved waste disposal plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

According to regulation (EU) 1907/2006, no substance is assessed as PBT or vPvB.
No substances are known to have endocrine disrupting properties according to Regulations (EU) 1907/2006, (EU) 2017/2100, (EU) 2018/605.

3. Composition/Information on Ingredients

3.1 Product mixture

Synonyms: Mixture.
Molecular Wt: Not available.
CAS-No.: Not available.

Ingredients	Classification	CAS-No.	Concentration
Aliphatic hydrocarbon blend (C11-C16)	Asp. Haz. 1; H304	Not available.	100%

4. First Aid Measures

4.1 Description of first aid measures

Skin exposure
If this product contaminates the skin, wash off with soap and plenty of water. Consult a physician.

Eye exposure
If this product enters the eyes, rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation occurs.

Inhalation
If mists of this product are inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. If necessary, use artificial respiration to support vital functions. Consult a physician.

Ingestion
Get medical attention immediately. Never give anything by mouth to an unconscious person. Rinse mouth with water. Give small quantities of water to drink if material has been swallowed, but stop if victim feels nauseous as vomiting may be dangerous if vomit enters airways.

4.2 Most important symptoms and effects, both acute and delayed

Ingestion: may be fatal if swallowed and enters airways. May cause nausea or vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire Fighting Measures

5.1 Suitable (and unsuitable) extinguishing media

Suitable: Water fog, carbon dioxide, foam, dry chemical, any ABC class.
Unsuitable: Straight streams of water.

5.2 Specific hazards arising from the chemical

Heat will cause a pressure increase that may burst the container. Combustion products may include airborne solid and liquid particulates and gases (smoke). Carbon monoxide, oxides of sulphur, and unidentified organic and inorganic compounds. Vapor is heavier than air and spreads along the ground.

5.3 Advice for firefighters

Structural fire fighters must wear Self-Contained Breathing Apparatus and full protective equipment. Move fire-exposed containers if it can be done without risk to firefighters. If possible, prevent run-off water from entering storm drains, bodies of water, or other environmental areas.

5.4 Further information

Use water spray to cool unopened containers. Remove containers from danger zone if it can be done without risk.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures
Proper protective equipment should be used. In case of an uncontrolled release, clear the affected area, protect people, and respond with trained personnel using pre-planned procedures. Remove all possible sources of ignition. Take precautionary measures against static discharge. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions
Do not let product enter drains, waterways, basements or confined areas.

6.3 Methods and materials for containment and cleaning up
Stop leak if it can be done without risk. Eliminate sources of ignition. Contain and collect spillage with sand, earth, or other appropriate absorbent material, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal (container contents may pose the same hazard as spilled product). Keep public away and advise authorities.

Water spill
Eliminate sources of ignition. Confine the spill with booms. Warn occupants and shipping in surrounding and downwind areas of possible fire and explosion hazard, and request all to stay clear. Remove from surface by skimming or with suitable adsorbents. If allowed by local authorities and environmental agencies, dispersant may be used in non-confined waters; seek the advice of a specialist first. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

6.4 References to other sections
For disposal see section 13.

7. Handling and Storage

7.1 General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink, or smoke in work areas. Wash hands before breaks and at the end of the day. Avoid breathing vapors or contact with material.

7.2 Precautions for safe handling
All employees who handle this material should be trained to handle it safely. Use in a well-ventilated location. Open drums and other containers of this product slowly, on a stable surface. Drums and other containers of this product should be properly labeled. Keep away from heat and sources of ignition – no smoking. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use proper bonding and/or grounding procedures. Do NOT pressurize, cut, heat, or weld containers. Empty drums and containers may contain residual amounts of this product, therefore, empty containers should be handled with care.

7.3 Conditions for safe storage, including any incompatibilities
Move drums of this product carefully, with the appropriate drum-handling equipment. Store locked up. Store drums and other containers in cool, dry locations, away from direct sunlight, or sources of intense heat. Storage areas should be made of fire-resistant materials. Keep containers away from incompatible chemicals. Keep containers tightly closed and in dry, well-ventilated places. Do not eat or drink around this material.

8. Exposure Controls/Personal Protection

8.1 Control and exposure limits recommended by the chemical manufacturer
No occupational exposure limit values known.

8.2 Appropriate engineering controls

Use with adequate ventilation to minimize exposure to mists or sprays of this product. Prudent practice is to ensure eyewash/safety shower stations are available near areas where this product is used. Monitoring of oxygen level is recommended. Decontaminate the area thoroughly. If necessary, decontaminate spill response equipment with soap and water solution

8.3 Individual protection measures, such as personal protective equipment

Respiratory protection
None needed for normal circumstances of use. If respiratory protection is needed, use only protection authorized in 29 CFR 1910.134, or applicable State regulations. Use supplied air respiration protection if oxygen levels are below 19.5% or are unknown.

Eye protection
Wear safety glasses with side shields.

Hand protection
Wear neoprene, nitrile rubber, or other suitable gloves for routine industrial use.

Body protection
Wear protective clothing based on the risks associated with the task being performed.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

a)	Physical state	Liquid.
b)	Color	Clear, colorless.
c)	Odor	Hydrocarbon-like. Odor threshold: No data available.
d)	Melting/freezing point	< -40°C (< -40°F)
e)	Boiling point	> 269°C (> 516°F)
f)	Flammability	Ignitable.
g)	Upper/lower flammability or explosive limits	Upper (UEL): 5.0% (V) Lower (LEL): 0.5% (V)
h)	Flash point	> 110°C (> 230°F); closed-cup
i)	Auto-ignition temp	262°C (503.6°F) (ASTM E659)
j)	Decomposition temp	Not determined.
k)	pH	Not applicable.
l)	Kinematic viscosity	>1.0 cSt at 25°C (77°F)
m)	Water solubility	Negligible.
n)	Partition coefficient: n-octanol/water	> 4 [Estimated]
o)	Vapor pressure	< 1.0 mmHg at 25°C (77°F)
p)	Density	0.80 g/cm^3 at 25°C (77°F)
q)	Relative vapor density	6.4 (Air = 1.0) [Calculated]
r)	Particle characteristics	Not applicable

10. Stability and Reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability
Stable under ordinary conditions of use and storage.

10.3 Possibility of hazardous reactions
Hazardous reactions will not occur under ordinary conditions of use and storage.

10.4 Conditions to avoid
Contact with incompatible chemicals and exposure to extremely high temperatures. Avoid heat, sparks, open flames, and high energy ignition sources.

10.5 Incompatible materials
Strong oxidizers.

10.6 Hazardous decomposition products
Material does not decompose at ambient temperatures. Hazardous gases and vapors produced in fire (see section 5).

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

LC50 Inhaled – rat:	> 5 000 mg/m^3 (Aerosol)
LD50 Oral – rat:	> 5 000 mg/kg
LD50 Dermal – rabbit:	> 2 200 mg/kg

Skin corrosion/ irritation
May dry skin leading to discomfort and dermatitis, based on test data for structurally similar material.

Serious eye damage/eye irritation
May cause mild, short-lasting discomfort to eyes, based on test data for structurally similar material.

Respiratory or skin sensitization
This product is not reported to produce sensitization effects, based on test data for structurally similar material.

Suspected cancer agent
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC, NTP, or OSHA.

Irritancy of product
This product may cause irritation to contaminated tissues.

Reproductive toxicity
This product is not reported to produce mutagenic, embryotoxic, teratogenic, or reproductive effects in humans, based on test data for structurally similar material.

Specific target organ toxicity
No target organ effects expected from prolonged or repeated exposure, based on test data for structurally similar materials.

Medical conditions aggravated by exposure
It is anticipated that mainly skin, eye, and respiratory disorders may be aggravated after over-exposure.

12. Ecological Information

12.1 Ecotoxicity (aquatic and terrestrial)
Not expected to be harmful to aquatic organisms. Not expected to demonstrate chronic toxicity to aquatic organisms.

12.2 Persistence and degradability
Expected to biodegrade slowly. Transformation due to hydrolysis or photolysis not expected to be significant. Expected to degrade rapidly in air.

12.3 Bioaccumulation potential
Not determined.

12.4 Mobility in soil
Highly volatile, will partition rapidly to air. Not expected to partition to sediment and wastewater solids.

12.5 Results of PBT and vPvB assessment
According to regulation (EU) 1907/2006, no substance is assessed as PBT or vPvB.

12.6 Endocrine disrupting properties
No substances are known to have endocrine disrupting properties according to Regulations (EU) 1907/2006, (EU) 2017/2100, (EU) 2018/605

12.7 Other adverse effects
None.
Information source: ECHA

13. Disposal Considerations

13.1 Waste treatment methods
Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

14. Transport Information

DOT / IMDG / IATA
Not dangerous goods.

Marine pollutant
No component of this product is listed as a Marine Pollutant (49 CFR 172.101, Appendix B).

Transport Canada transportation of dangerous goods regulations
This material is not considered as dangerous goods.

15. Regulatory Information

SARA 302	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302 (Extremely Hazardous Substances).
SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313 (Toxics Release Inventory Chemicals).
SARA 311/312	(Emergency Planning and Community Right-to-Know Act): Aspiration hazard.
Massachusetts Right To Know	No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right To Know	No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right To Know	No components are subject to the New Jersey Right to Know Act.
TSCA	All of the components of this product are on the Toxic Substance Control Act Inventory.
EINECS	All of the components of this product are on the European Inventory of Existing Commercial Chemical Substances.

California Prop 65	This product does not contain ingredients that cause cancer or reproductive harm known to the state of California.
Canada DSL	All of the components of this product are on the Canadian Domestic Substance List.

16. Other Information

Revision Date
30 July 2024

This SDS was prepared by Dynalene, Inc.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Dynalene Heat Transfer Fluids assumes no responsibility for injury to the vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, Dynalene Heat Transfer Fluids assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in their use of the material.