Dynalene MV

1. Product and Company Identification

1.1 Product identifiers
Product Name: Dynalene MV
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)
Flammable liquids (Category 3), H226
Aspiration hazard (Category 1), H304
Skin irritation (Category 2), H315
Skin sensitizer (Category 1), H317
Specific target organ toxicity, single exposure – respiratory irritation (Category 3), H335
Chronic aquatic toxicity (Category 1), H410

2.2 GHS Label elements, including precautionary statements

Pictogram

| ![Pictogram Image] |

Signal word: Danger

Hazard statement(s)
H226 Flammable liquid and vapor.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)
Keep away from heat/sparks/flames/hot surfaces. – No smoking. Keep container tightly closed.
Ground/bond container and receiving equipment. Use explosion proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.
Avoid breathing fumes/mist/vapors/spray. Wash skin thoroughly after handling. Do not eat, drink, or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye protection. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Collect spillage.
In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.
Store locked up in a well-ventilated place. Keep container tightly closed. Keep cool.
Dispose of contents/container to an approved waste disposal plant.

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

None.

3. Composition/Information on Ingredients

3.1 Product mixture

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Hazard Info</th>
<th>Identifier</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aromatic hydrocarbon blend</td>
<td>Flam Liq. 3 (H226); Acute Tox. 1 (H304); Skin Irrit. 2 (H315); Skin Sens. 1 (H317); STOT-SE (H335) Aquatic Tox. 1 (H410)</td>
<td>CAS No: not available</td>
<td>&gt;99%</td>
</tr>
<tr>
<td>Additives</td>
<td>None</td>
<td>CAS No: not available</td>
<td>&lt;1%</td>
</tr>
</tbody>
</table>

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 and consult a physician.

Inhalation
If mists of this product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Consult a physician.

Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2 **Most important symptoms and effects, both acute and delayed**  
The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11.

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 spray, carbon dioxide, foam, dry chemical, any ABC class.

5.2 **Specific hazards arising from the chemical**  
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.

## 6. Accidental Release Measures

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

6.2 **Environmental precautions**  
Do not let product enter drains.

6.3 **Methods and materials for containment and cleaning up**  
Sweep up and shovel. Contain spillage with sand or earth, 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. Soak up with appropriate absorbent material and dispose of safely. Keep public away and advise authorities.

**Water spill**  
Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of 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, sinking and/or suitable dispersant may be used in non-confined waters. 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. 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. Empty drums and containers may contain residual amounts of this product, therefore, empty containers should be handled with care. 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.

7.3 **Conditions for safe storage, including any incompatibilities**  
Move drums of this product carefully, with the appropriate drum-handling equipment. 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**  
OSHA PEL: Not established.

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**  
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 butyl rubber, natural rubber, neoprene, Nitrile rubber, or other suitable gloves for routine industrial use.

**Body protection**  
Complete suit protecting against chemicals. Impervious clothing. Flame retardant antistatic protective clothing.

9. **Physical and Chemical Properties**

9.1 **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>a) Appearance</td>
<td>Liquid, clear/light yellow.</td>
</tr>
<tr>
<td>b) Odor</td>
<td>Hydrocarbon-like.</td>
</tr>
<tr>
<td>c) Odor threshold</td>
<td>No data available.</td>
</tr>
<tr>
<td>d) pH</td>
<td>No data available.</td>
</tr>
<tr>
<td>e) Melting/freezing point</td>
<td>&lt;-118°C (&lt;-180°F)</td>
</tr>
<tr>
<td>f) Boiling point</td>
<td>&gt;176°C (&gt;348°F)</td>
</tr>
<tr>
<td>g) Flash point</td>
<td>53°C (127°F), closed cup.</td>
</tr>
</tbody>
</table>
h) Evaporation rate: No data available.
i) Flammability (solid, gas): No data available.
j) Upper/lower flammability or explosive limits:
   Upper (UEL): 6.5% (V)
   Lower (LEL): 0.7% (V)
k) Vapor pressure: 23 mbar at 25°C (77°F)
l) Relative vapor density: 4.5 at 1 atm (Air = 1)
m) Relative density: 0.85 g/cm³ at 25°C (77°F)
n) Water solubility: Negligible.
o) Partition coefficient: n-octanol/water: No data available.
p) Auto-ignition temp: 388°C (730°F)
q) Decomposition temp: No data available.
r) Viscosity: 1.1 cP at 25°C (77°F)

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
No data available.

10.4 Conditions to avoid
Contact with incompatible chemicals and exposure to extremely high temperatures. Avoid electrical sparks and other sources of ignition.

10.5 Incompatible materials
Strong oxidizers, strong acids, acid chlorides, acid anhydrides, chloroformates, organic materials, cyanides, thiocyanates, or strong reducing agents.

10.6 Hazardous decomposition products
Hazardous gases and vapors produced in fire. Oxides of carbon. In the event of fire, see section 5.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral – rat: >2,000 mg/kg
LD50 Dermal – rabbit: >5,000 mg/kg

Skin corrosion/ irritation
Skin irritation – rabbit, 4h.

Serious eye damage/eye irritation
No data available.

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, ACGIH, 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.

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

Biological exposure indices
Currently, there are no Biological Indices (BEIs) associated with the components of this product.

12. Ecological Information

12.1 Ecotoxicity (aquatic and terrestrial)
This product may be harmful to aquatic life if large quantities are released into bodies of water.

Toxicity to fish  
semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - 0.673 mg/l - 96h

Toxicity to invertebrates  
static test EC50 - Daphnia magna (Water flea) - 2.01 mg/l - 48 h

Toxicity to algae  
Static test EC50 - Pseudokirchneriella subcapitata (Selenastrum capricornutum) - 1.21 mg/l - 72 h

Toxicity to bacteria  
Respiration inhibition NOEC - Sludge Treatment - > 1,000 mg/l - 3 h

12.2 Persistence and degradability
No data available.

12.3 Mobility in soil
No data available.

12.4 Other adverse effects
None.

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 (US), IMDG, IATA
UN Number: 3295
Class: 3
UN Proper Shipping Name: Hydrocarbons, liquid, N.O.S., (flash point 53°C c.c.)
Packing Group: III

Environmental hazards
Marine pollutant

15. Regulatory Information

SARA 302 No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

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.
SARA 311/312  Physical hazards (Flammable liquid); Health hazards (Skin irritation; Skin sensitivity; Specific target organ toxicity, single exposure; 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

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 components of this product are on the Canadian Domestic Substance List.

16. Other Information

Revision Date
15 June 2020

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.