

MATERIAL SAFETY DATA SHEET

DYNALENE 600

SECTION 1: PRODUCT IDENTIFICATION

Material Identification

PRODUCT NAME: **DYNALENE 600** Heat Transfer Fluids
CHEMICAL FAMILY: MIXTURE

Company Identification

MANUFACTURER: Dynalene Inc
5250 West Coplay Road
Whitehall, PA 18052

TELEPHONE NUMBERS
Product Information: 610-262-9686
Emergency Phone: CHEMTREC 1-800-424-9300

Date of Preparation November 9, 2005

Revision Date January 7, 2008

SECTION 2: COMPOSITION /INFORMATION ON INGREDIENTS

<u>MATERIAL</u>	<u>CAS Number</u>	<u>Wt. %</u>	<u>OSHA PEL (TWA)</u>	<u>ACGIH TLV (TWA)</u>	<u>EU Classification</u>
Silicone	NA	NA	-----	-----	-----

NE = Not Established C = Ceiling Level See Section 16 for Definitions of Terms Used.

NOTE: All WHMIS required information is included. It is located in appropriate sections based on the ANSI Z400.1-1993 format. This product is hazardous as defined in 29 CFR 1910.1200.

NOTE : All Hazard information pertinent to the proprietary compounds has been provided in this MSDS, per the requirements of the OSHA Hazard Communication Standard (29 CFR 1910.1200) and State equivalent Standards.

SECTION 3: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW

Physical Appearance:

This product is a liquid, brown color, with slight odor.

Immediate Concerns:

This product will ignite and burn at elevated temperature in presence of an ignition source.

Inhalation:

No significant effects expected from a single short-term exposure.

Eyes:

Direct contact may cause temporary redness and discomfort.

Skin:

No significant effects expected from a single short-term exposure.

Ingestion:

Low ingestion hazard in normal use. Swallowing large amounts of this product may cause digestive discomfort.

HAZARDOUS MATERIAL INFORMATION SYSTEM

HMIS

HEALTH:	1
FLAMMABILITY:	1
REACTIVITY:	0

SECTION 4: FIRST-AID MEASURES

Skin Exposure:

Flush with large amounts of water: use soap if available.

Eye Exposure:

Immediately flush with water; minimum flushing is for 15 minutes.

Inhalation:

No first aid should be needed

Ingestion:

No first aid should be needed

SECTION 5: FIRE-FIGHTING MEASURES

Flammable properties

FLASH POINT:	> 175°C (>347°F) (Closed Cup)
AUTOIGNITION:	Not determined
FLAMMABLE LIMITS:	
Lower (LEL):	Not determined
Upper (UEL):	Not determined

Extinguishing Media:

Use foam, water spray, or dry chemical. On small fires use carbon dioxide (CO₂), dry chemical or water spray. Water can be used to cool fire exposed containers.

Fire-Fighting Instructions:

Use water spray to cool fire exposed surfaces and to protect personnel. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan.

Hazardous Decomposition Products:

Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Carbon oxides and traces on incompletely burned Carbon compounds. Silicone dioxide, Metal oxides, Formaldehyde.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Spill and leak Response

Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Section 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If dike material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Final cleaning may require use of steam, solvent or detergents. Dispose in accordance with Federal, State, and local hazardous waste disposal regulations (see Section 13, Disposal Considerations).

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 dispersants may be use in non-confined waters. Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.

SECTION 7: HANDLING AND STORAGE

Usual Shipping Containers

Tank trucks, drums and totes.

Storage and Handling Practices

Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Store away from oxidizing materials.

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SECTION 8: EXPOSURE CONTROLS-PERSONAL PROTECTION

Engineering Controls

General ventilation recommended.

Personal Protective Equipment**RESPIRATORY PROTECTION:**

No respiratory protection should be needed

EYE PROTECTION:

Use proper protection-safety glasses as a minimum.

HAND PROTECTION:

No special protection needed.

SKIN:

Washing at mealtime and end of shift is adequate.

PERSONAL PROTECTIVE EQUIPMENT LEVEL: C

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

RELATIVE VAPOR DENSITY (air = 1):	Not determined.
EVAPORATION RATE (n-BuAc=1):	<1
SPECIFIC GRAVITY @ 25°C:	0.97
MELTING POINT or RANGE:	Not determined.
SOLUBILITY IN WATER:	Not determined.
BOILING POINT:	°C (°F)
VAPOR PRESSURE, mm Hg @ 68 °F:	< 1.0
VISCOSITY:	2.0 @ 77°F
ODOR:	Not Available.
PHYSICAL STATE:	Liquid
pH:	Not applicable.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

Stable at normal temperatures and storage conditions

Decomposition

None expected.

Incompatibility with Other Materials

May react with strong oxidizers

Hazardous Polymerization

Will not occur

Conditions to Avoid

Not applicable.

SECTION 11: TOXICOLOGICAL INFORMATION

General Toxicity Information

Please refer to Section 3 for available information on potential health effects.

SECTION 12: ECOLOGICAL INFORMATION

Environmental Fate & Ecotoxicity Data

ECOTOXICOLOGICAL INFORMATION: Not available.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: This product may be harmful to contaminated plant and animal life (especially if large quantities are released). Refer to Section 11 (Toxicological Information) for specified information regarding effects of this product's components on test animals.

EFFECT OF CHEMICAL ON AQUATIC LIFE: This product may be harmful to aquatic life if large quantities are released into bodies of water.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal

Waste disposal must be in accordance with appropriate Federal, State, and local regulations or those of Canada and its Provinces. Please refer to Section 5, 6 and 15 for disposal and regulatory information.

SECTION 14: TRANSPORTATION INFORMATION

Shipping Information

In containers of 119 gallons capacity or less, this product is not regulated by DOT

Proper Shipping Name:	Petroleum Distillate, N.O.S.
Hazard Class Number and Description:	Combustible Liquid
UN Identification Number	UN 1268
Packing Group	III
DOT label(s) required	None

Marine Pollutant

No component of this product is classified as a Marine Pollutant, as listed in Appendix B to 49 CFR 172.101.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations**A: General Product Information**

No Additional information available.

B: Component Analysis

SARA 302 STATUS: Contains no chemicals subject to SARA 302 reporting.

SARA 311/312: Under the provisions of Title III, Sections 311/312 of the Superfund Amendments and Regulations Act, this product is classified in to the following categories: Fire

SARA 313 CHEMICALS: Contains no chemicals subject to SARA 313 reporting.

TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory.

CERCLA: If this product is accidentally spilled, it is not subject to any special reporting under the requirements of the Comprehensive Environmental Response, Compensation Liability Act. We recommend you contact local authorities to determine if there may be other local reporting requirements.

CLEAN WATER ACT/OIL POLLUTION ACT: This product is classified as oil under Section 311 of Clean Water Act (40 CFR 110) and the Oil Pollution Act of 1990. Discharge or spills which produce a visible sheen on either surface water, or in waterways/sewers which lead to surface must be reported to the National Response Center.

C: Additional Canadian Regulations

CANADIAN WHMIS SYMBOLS: Flammable and combustible materials/ Combustible Liquid

SECTION 16: OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
Flammability: 1
Reactivity: 0

PREPARED BY:

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610-262 – 9686

Date of Printing:

January 7, 2008.

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 his use of the material.

DEFINITIONS OF TERMS

Key/Legend

ppm = parts per million; mg/m³ = milligrams per cubic meter of air; mppcf = million of particles per cubic foot of air; f/cc = fibers per cubic centimeter of air; OSHA = Occupational Safety and Health Administration; ACGIH = American Conference of Governmental Industrial Hygienists; TLV = Threshold Limit Value; TWA = 8-hour, time-weighted average; STEL = short-term exposure limit; EPA = Environmental Protection Agency; TSCA = Toxic Substances Control Act; DSL = Canada Domestic Substances List; EINECS = European Inventory of Existing Commercial Chemical Substances; ECL = Korea Existing and Evaluated Chemical Substances Inventory; ENCS = Japan Existing and New Chemical Substances Inventory; PICCS = Philippines Inventory of Chemicals Substances; AICS = Australia Inventory of Chemicals Substances; IARC = International Agency for Research on Cancer; NIOSH = National Institute for Occupational Safety and Health; NTP = National Toxicology Program; PMN = Premanufacture Notification; DSL = Domestic Substance List; NFPA = National Fire Protection Association; WHMIS = Workplace Hazardous Materials Identification System; HEPA = High Efficiency Particulate Air; CERCLA = Comprehensive Environmental Response, Compensation and Liability Act; SARA = Superfund Amendments and Reauthorization Act; NJTSR = New Jersey Trade Secret Registry; EPCRA = Emergency Planning and Community Right-to-Know Act (SARA, Title III); 302 = Extremely Hazardous Substance; HAP = Clean Air Act Hazardous Air Pollutant; TPQ = Threshold Planning Quantity; RQ = Reportable Quantity; NA = Not Available; NR = Not Regulated