

Product Name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**

Revision Date: *June 12, 2007*



Page 1 of 8
MSDS ref CII07-017

MATERIAL SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT

Product name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**

Alternate description/ brand: HTNN-1, HTNN-2

Product description: Hydrocarbon polymer in synthetic base oil

Product code: 9727-U92, 9727-U94

Intended use: Viscometer high temperature calibration standards

COMPANY IDENTIFICATION

Supplier: **Cannon Instrument Company**
2139 High Tech Road
State College, Pennsylvania 16803

Product Technical Information: (814) 353-8000

Product MSDS Information: (814) 353-8000

EMERGENCY TELEPHONE NUMBER:

24-Hour Transportation Emergency: (800) 255-3924 Domestic CHEM-TEL Inc.

24-Hour Health Emergency: +1 (813) 248-0585 Overseas CHEM-TEL Inc. (please call collect)

SECTION 2	COMPOSITION/INFORMATION ON INGREDIENTS
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- **OSHA Hazardous Substance(s) or Complex Substance(s)**

None present. This is not a hazardous substance as defined in the OSHA Hazard Communication Standard

SECTION 3	HAZARD IDENTIFICATION
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This product is a mixture that has not been tested in laboratory animals. The following is based on characterizations of components as provided by suppliers

EFFECTS OF OVEREXPOSURE:

Acute effects

Eye: Non-toxic, not classified as irritating. Direct contact may cause temporary redness and discomfort.

Skin: No significant irritation expected from a single short-term exposure

Inhalation: No significant effects expected from a single short-term exposure. Inhalation exposures are not expected under recommended uses/ conditions

Product Name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 2 of 8
MSDS ref CII07-017

Oral: Low ingestion hazard in normal use. If ingested, do not induce vomiting.

Prolonged/ repeated exposure effects

Skin: Not classified as hazardous

Inhalation: Not classified as hazardous

Oral: Not classified as hazardous

Repeated and/or prolonged exposure may cause irritation to the skin, eyes or respiratory tract.

Signs and symptoms of overexposure:

Irritation and/ or redness of eyes and skin

Medical conditions aggravated by exposure

None identified

Note:

Low viscosity hydrocarbon liquids such as these can cause chemical pneumonitis. Therefore, if the material is ingested, do not induce vomiting, as this can result in aspiration into the lungs.

NFPA HAZARD ID: Health: 0 Flammability: 1 Reactivity: 0
(National Fire Protection Association)

NOTE: This material should not be used for any other purpose than the intended use in Section 1

SECTION 4	FIRST AID MEASURES
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INHALATION Not expected to be a problem since high temperature or high mechanical shear are required to generate airborne exposure. However, if respiratory irritation, dizziness, nausea, or unconsciousness occurs due to excessive vapor or mist exposure, seek immediate medical assistance. If breathing has stopped, assist ventilation with a mechanical device or mouth-to-mouth resuscitation .

SKIN CONTACT Wash contact areas with soap and water. Remove and clean oil soaked clothing daily and wash affected area .

EYE CONTACT Flush thoroughly with water. If irritation occurs, call a physician.

INGESTION Seek medical attention. Do not induce vomiting.

NOTE TO PHYSICIAN: Ingested material, if aspirated into the lungs (e.g. By vomiting), may cause chemical pneumonitis.

Product Name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 3 of 8
MSDS ref CII07-017

SECTION 5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate extinguishing media: Carbon dioxide, foam, dry chemical and water fog. Water can be used to cool fire exposed containers

FIRE FIGHTING

Fire fighting instructions: 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. Use water spray to keep the exposed containers cool. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

Unusual fire hazards: None identified

Hazardous combustion products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following hazardous decomposition products: Fumes, smoke, carbon monoxide, aldehydes and other decomposition products

FLAMMABILITY PROPERTIES

Flash point °C (°F) [method]: >425°F/ 219°C (minimum)

Flammable limits (approx. Volume % in air) – not determined

Autoignition temperature °C (°F): not determined

SECTION 6 ACCIDENTAL RELEASE MEASURES

NOTIFICATION PROCEDURES: Report spills/releases to appropriate authorities as required.

CONTAINMENT/ CLEANUP

PROCEDURES IF MATERIAL IS RELEASED OR SPILLED:

LAND SPILL: Shut off source taking normal safety precautions. Take measures to minimize the effects on ground water. Recover by pumping or contain spilled material with sand or other suitable absorbent and remove mechanically into containers. If necessary, dispose of adsorbed residues as required by regulations (see Section 13.)

WATER SPILL: Confine the spill immediately with booms. Notify relevant authorities. Remove from the surface by skimming or with suitable absorbents

ENVIRONMENTAL PRECAUTIONS: Prevent material from entering sewers, water sources or low lying areas; advise the relevant authorities if it has, or if it contaminates soil/vegetation.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS

Eyes: Use proper protection – safety glasses as a minimum

Skin: Washing at mealtime and end-of-shift is adequate

Inhalation: No respiratory protection should be needed

Precautionary measures: Avoid eye contact. Use reasonable care

Product Name: **High Temperature Viscosity
Standards – Hydrocarbon
Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 4 of 8
MSDS ref CII07-017

SECTION 7	HANDLING AND STORAGE
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HANDLING

Avoid prolonged/ repeated skin contact. Use with adequate ventilation

STORAGE:

Keep containers closed when not in use. Do not store in open or unlabelled containers. Store away from strong oxidizing agents and combustible materials. Do not store near heat, sparks, flame or strong oxidants.

SPECIAL PRECAUTIONS

Prevent small spills and leakages to optimize housekeeping and avoid slip hazards.

EMPTY CONTAINER WARNING

Empty containers retain residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

STORAGE

Use reasonable care and store away from oxidizing materials

SECTION 8	EXPOSURE CONTROLS/PERSONAL PROTECTION
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EXPOSURE LIMIT VALUES

No workplace exposure limits have been established for this product

ENGINEERING CONTROLS

General ventilation is recommended. No local exhaust ventilation should be needed

PERSONAL PROTECTION

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection:

No respiratory protection should be needed

Hand Protection:

No special protection is needed

Eye Protection:

Use proper protection – safety glasses as a minimum

Specific Hygiene Measures:

Washing at mealtime and end-of-shift is adequate

Product Name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 5 of 8
MSDS ref CII07-017

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical and chemical properties are given below. Consult the Cannon Instrument Company as indicated in Section 1 for additional data.

GENERAL INFORMATION

Physical state: Liquid
Form: Liquid
Color: clear colorless color
Odor: Characteristic, slight odor
Odor threshold: not available

IMPORTANT HEALTH, SAFETY AND ENVIRONMENTAL INFORMATION

Specific Gravity @ 25°C: <0.9
Bulk density g/cc: not determined
Density, kg/m³ (lbs./gal.): not determined
Flash point °C (°F) [method]: >425°F/ 219°C
Flammable limits (approx. Volume % in air) - not determined
Ignition temperature (polymers) °C (°F): not determined
Autoignition temperature °C (°F): not determined
Boiling point/range °C (°F): not determined
Vapor density @ 101 kPa (air =1): not determined
Vapor pressure @ 20°C, kPa (mm Hg): not determined
Evaporation rate (n-butyl acetate =1): not determined
pH: not applicable
Log Pow (n-Octanol/water partition coefficient): not determined
Solubility in water (20 °C): negligible
Viscosity: see product specification

OTHER INFORMATION

Freezing point °C (°F): not determined
Melting Point °C (°F): not determined
Pour point °C (°F): not determined
Molecular weight: not available
Hygroscopic: no
Coefficient of thermal expansion: not determined

SECTION 10 STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Extreme heat and high energy sources of ignition.

MATERIALS TO AVOID: Strong oxidizing agents/ materials can cause a reaction

HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. The information and recommendations contained herein is compiled from suppliers' MSDS and are accurate and reliable to the best of Cannon Instrument Company's knowledge and belief as of the indicated revision date. No representation, warranty or guarantee, however, is made with regards to accuracy, reliability or completeness. Conditions of use of the material are under the control of the user; therefore, it is the user's responsibility to determine the suitability and completeness of such information for any specific conditions/ use.

Product Name: **High Temperature Viscosity
Standards – Hydrocarbon
Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 6 of 8
MSDS ref CII07-017

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur

SECTION 11 TOXICOLOGICAL INFORMATION

This product is a mixture of components, and it has not been tested. Information from suppliers indicates that the product is not classifiable as hazardous

SECTION 12 ECOLOGICAL INFORMATION

Environmental fate and distribution

No specific environmental data are available for this product; this assessment is based on information for similar components/ products.

Air: This product has a low vapor pressure. As a result, it is unlikely to become an atmospheric contaminant under recommended conditions of use

Water: This product has low water solubility. Since it has a specific gravity of <1, if discharged to water, it will form a surface film. No specific ecological data are available from the supplier for this product

Soil: No specific ecological data are available from the supplier for this product

Degradation: No specific ecological data are available from the supplier for this product

Environmental effects

Toxicity to water organisms: No specific ecological data are available from the supplier for this product

Toxicity to soil organisms: No specific ecological data are available from the supplier for this product

Bioaccumulation: No specific ecological data are available from the supplier for this product

Fate and effects in water treatment plants

No specific data are available from the supplier for this product

SECTION 13 DISPOSAL CONSIDERATIONS

When a decision is made to discard this material, it is not considered a hazardous waste under Resource Conservation and Recovery Act (RCRA).

State or local laws may impose additional regulatory requirements regarding disposal

Product Name: **High Temperature Viscosity Standards – Hydrocarbon Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

WASTE DISPOSAL: Product is suitable for burning in an enclosed, controlled burner for fuel value. Such burning may be limited pursuant to the Resource Conservation and Recovery Act. In addition, the product is suitable for processing by an approved recycling facility or can be disposed of at an appropriate government waste disposal facility. Use of these methods is subject to user compliance with applicable laws and regulations and consideration of product characteristics at time of disposal.

SECTION 14 TRANSPORT INFORMATION

Note: The information provided below may not apply to all shipping situations. Consult appropriate Dangerous Goods Regulations for additional requirements and mode-specific, material-specific, or quantity-specific shipping requirements.

United States Department of Transportation (US DOT):

UN/ID#	Proper Shipping Name	Class/Division	Hazard Label(s)	Packing Group
Not Regulated As A Hazardous Material Or Dangerous Good For This Mode of Transportation.				

International Air Transport Association (IATA):

UN/ID#	Proper Shipping Name	Class/Division	Hazard Label(s)	Packing Group
Not Regulated As A Hazardous Material Or Dangerous Good For This Mode of Transportation.				

SECTION 15 REGULATORY INFORMATION

OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purposes, this material is not classified as hazardous in accordance with OSHA 29 CFR 1910.1200.

NATIONAL CHEMICAL INVENTORY LISTING: This product, and/ or its constituents, is listed on the US EPA/ TSCA (Toxic Substances Control Act) Inventory

COMMUNITY RTK:

Chemical Name	CAS Number	Typical Value	Component TPQ	Product TPQ
Synthetic base oil	68649-12-7	>95%	Not applicable	Not applicable
Hydrocarbon polymer	not available	>5%		

Section 304 CERCLA HAZARDOUS SUBSTANCES:

This product contains no chemicals that are classified as hazardous under CERCLA

SARA (311/312) REPORTABLE HAZARD CATEGORIES:

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Product Name: **High Temperature Viscosity
Standards – Hydrocarbon
Polymer in Synthetic Base Oil**



Revision Date: *June 12, 2007*

Page 8 of 8
MSDS ref CII07-017

This product contains no chemicals that are classified as hazardous under SARA 312

SARA (313) TOXIC RELEASE INVENTORY:

This product contains no chemicals that are regulated under SARA 313

International chemical inventories and hazard classifications

This product and/ or its components are on the Canadian Domestic Substance List/ NDSL, or are otherwise in compliance with related regulations.

[WHMIS Classifications \(Canada\):](#)

This series of fluids is not controlled under provisions of WHMIS.

This product and/ or its components are on EINECS (European Inventory of Existing Chemical Substances) and/ or ELINCS (European Library of Notified Chemical Substances), or is otherwise in conformance with related EU directives/ regulations.

[EU Hazard Classification, risk and safety phrases \(Europe\):](#)

This series of fluids is not classified according to EU directives and regulations.

SECTION 16	OTHER INFORMATION
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THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Summary:

- **October 15, 2005 -- This MSDS has been fully reviewed and reformatted to conform to changes in standard format**
- **May 14, 2007: Added Canadian and European classification and labeling information, based on current regulations and/or recommendations from suppliers (see Section 15)**
- **June 12, 2007: Updated and standardized format of Transport Information (see Section 14)**

NOTES: