

MATERIAL SAFETY DATA SHEET

Weiss Instruments Inc.

BLUE RIBBON THERMOMETRIC FLUID

SECTION 1 COMPANY IDENTIFICATION and CHEMICAL PRODUCT

PRODUCT NAME: BLUE RIBBON THERMOMETRIC FLUID
CHEMICAL FAMILY: Aliphatic Hydrocarbon
PRODUCT DESCRIPTION: Clear Blue Liquid

CONTACT INFORMATION:

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SECTION 2 COMPOSITION / INFORMATION on INGREDIENTS

GLOBALLY REPORTABLE MSDS INGREDIENTS:

Substance Name: HYDROTREATED LIGHT DISTILLATE
CAS# 64742-47-8

NOTE: Contains approximately 10 ppm BHT as an antioxidant to protect product quality.
See Section 8 for exposure limits

SECTION 3 HAZARDS IDENTIFICATION

This product is considered hazardous according to regulatory guidelines (See Section 15)

EMERGENCY OVERVIEW:

Clear, Blue Liquid. Material is combustible. Liquid can release vapors that readily form flammable mixtures at or above flash point. Product can accumulate a static charge which may cause a fire or explosion. DOT ERG No. 128

POTENTIAL HEALTH EFFECTS:

Slightly irritating to the eyes. Prolonged repeated skin contact may cause skin irritation and/or dermatitis. High vapor/aerosol concentrations are irritating to the eyes and the respiratory tract, may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Low viscosity material, if swallowed may enter lungs and cause lung damage. For further health effects/toxicological data, see Section 11

SECTION 4 FIRST AID MEASURES

EYE CONTACT:

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

SKIN CONTACT:

Wash contact areas with soap and water. Immediately remove contaminated clothing. Launder contaminated clothing before reuse. (See Section 16 – Injection Injury)

INHALATION:

Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, assist ventilation with mechanical device or use mouth-to-mouth resuscitation.

INGESTION:

Seek immediate medical attention. Do not induce vomiting.

NOTE TO PHYSICIANS: Material if aspirated into the lungs may cause chemical pneumonitis.

PRE-EXISTING MEDICAL CONDITIONS WHICH MAY BE AGGRAVATED BY EXPOSURE: Hydrocarbon Solvents/Petroleum Hydrocarbons- Skin contact may aggravate an existing dermatitis.

SECTION 5 FIRE-FIGHTING MEASURES

COMBUSTION PRODUCTS:

Carbon monoxide, Carbon dioxide, and water.

Flammable limits (approximate % volume in air) – LEL: 0.5%, UEL: 4.8%

NFPA HAZARD ID: Health: 1, Flammability: 2, Reactivity: 0

0 = Minimal

1 = Slight

2 = Moderate

3 = Serious

4 = Severe

SECTION 6 ACCIDENTAL RELEASE MEASURES

Not in sufficient quantity to cause an effect on the environment.

PERSONAL PRECAUTIONS: See Section 8

SECTION 7 HANDLING AND STORAGE

HANDLING AND STORAGE:

Keep product away from high-energy ignition sources,

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMITS:

It is recommended an 8-hour time-weighted average (TWA) of 1200 mg/m³ based on total hydrocarbon.

VENTILATION:

Use in well ventilated area with local exhaust ventilation. Ventilation equipment must be explosion proof.

RESPIRATORY PROTECTING:

Use supplied-air respiratory protection in confined spaces, if needed.

EYE PROTECTION:

If splashed with liquid is possible, chemical type goggles should be worn.

SKIN PROTECTION:

Impervious gloves should be worn. Good personal hygiene practices should always be followed.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Typical physical properties are given below. Consult Product Data Sheet for specific details.

APPEARANCE: Liquid

COLOR: Clear, Blue

ODOR: Mild Hydrocarbon

ODOR THRESHOLD-ppm: NE

PH: NA

BOILING POINT C (F): >223 (433)

MELTING POINT C (F): NA

FLASH POINT: C (F): 81 (177) (ASTM D-93)

FLAMMABILITY (solids) : NE

AUTO FLAMMABILITY: 254 (489)

EXPLOSIVE PROPERTIES: NA

OXIDIZING PROPERTIES: NA

VAPOR PRESSURE-mmHg 20 C: <0.1

VAPOR DENSITY: 6.8

EVAPORATION RATE: (1 = n-butyl acetate):<0.1

RELATIVE DENSITY: 15/4 C: 0.79

SOLUBILITY IN WATER: Negligible

PARTITION COEFFICIENT: NE

VISCOSITY AT 40C, Cst: 2.7

VISCOSITY AT 100C, cSt: NE

POUR POINT C (F): -57 (-71)
FREEZING POINT C (F): NE
VOLATILE ORGANIC COMPOUND: NE
DMSO EXTRACT: IP-346 (WT.%): NA
NA=NOT APPLICABLE NE=NOT ESTABLISHED D=DECOMPOSES

For further technical information, contact your marketing representative.

SECTION 10: STABILITY AND REACTIVITY

STABILITY (THERMAL, LIGHT, ETC.): Stable
CONDITIONS TO AVOID: Heat, sparks, flame and build up of static electricity.
INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS: Product does not decompose at ambient temperatures.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11 TOXICOLOGICAL DATA

** ACUTE TOXICOLOGY **

ORAL TOXICITY (RATS): Not Established
DERMAL TOXICITY (RABBITS): Not Established
INHALATION TOXICITY (RATS): Not Established
EYE IRRITATION (RABBITS): Not Established
SKIN IRRITATION (RABBITS): Not Established

** CHRONIC TOXICOLOGY (SUMMARY) **

Prolonged repeated skin contact may cause irritation and/or dermatitis.

SECTION 12 ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE AND EFFECTS: Not established

SECTION 13 DISPOSAL CONSIDERATIONS

WASTE DISPOSAL:

Product is suitable for burning for fuel value in compliance with applicable laws and regulations and consideration of product characteristics at the time of disposal.

RCRA INFORMATION:

The unused product is not specifically listed by the EPA as a hazardous waste (40 CFR, Part 261D), nor is it formulated to contain materials that are listed as hazardous wastes. It does not exhibit the hazardous characteristics of ignitability, corrosivity, or reactivity. The unused product is not formulated with substances covered by the Toxicity Characteristic Leaching Procedure (TCLP). However, used product may be regulated.

SECTION 14 TRANSPORTATION INFORMATION

USA DOT:

SHIPPING NAME:	Petroleum Distillates, n.o.s. (contains HYDROTREATED LIGHT DISTILLATE)
HAZARD CLASS & DIV:	COMBUSTIBLE LIQUID
ID NUMBER:	UN1268
ERG NUMBER:	128
PACKING GROUP:	PG III
STCC:	NE
DANGEROUS WHEN WET:	NO
POISON:	NO
LABEL (s)	NA
PLACARD (s):	Combustible
PRODUCT RQ:	NA
MARPOL III STATUE:	NA

In accordance with 49 CFR 173.150 (f) (2), non-bulk quantities of this material (<119 gallons per container) may be shipped as non-regulated for USA domestic shipments.

IMO:

HAZARD CLASS & DIV: 3.3
UN NUMBER: 1268
PACKING GROUP: PG III
SHIPPING NAME: Petroleum Distillates, n.o.s. (contains HYDROTREATED LIGHT DISTILLATE)
LABEL (s): Flammable Liquid
MARPOL III STATUS: NA

ICAO/IATA:

HAZARD CLASS & DIV: 3.3
UN NUMBER: 1268
PACKING GROUP: PG III
SHIPPING NAME: Petroleum Distillates, n.o.s. (contains HYDROTREATED LIGHT DISTILLATE)
SUBSIDIARY RISK: NA
LABEL (s): Flammable Liquid
STATIC ACCUMULATOR (50 picosiemens or less): YES

SECTION 15 REGULATORY INFORMATION

US OSHA HAZARD COMMUNICATION STANDARD:

Product assessed in accordance with OSHA 29 CFR 1910.1200 and determined to be hazardous.

Governmental Inventory Status: All components comply with TSCA.

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

This product contains no "EXTREMELY HAZARDOUS SUBSTANCES".

SARA (311/312) REPORTABLE HAZARD CATEGORIES: FIRE

This product contains no chemical subject to the supplier notification requirements of SARA (313) toxic release program.

The following product ingredients are cited on the lists below:

<u>CHEMICAL NAME</u>	<u>CAS NUMBER</u>	<u>LIST CITATIONS</u>
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***** NO REPORTABLE INGREDIENTS *****

--- REGULATORY LISTS SEARCHED ---

1=ACGIH ALL	6=IARC 1	11=TSCR 4 1	16=CA P65 CARC	21=LA RTK
2=ACGIH A1	7=IARC 2A	12=TSCA 5a2	17=CA P65 REPRO	22=MI 293
3=ACGIH A2	8=IARC 2B	13=TSCA 5e	18=CA RTK	23=MN RTK
4=NTP CARC	9=OSHA CARC	14=TSCA 6	19=FL RTK	24=NJ RTK
5=NTP SUS	10=OSHA Z	15=TSCA 12b	20=IL RTK	25=PA PTK
				26=RI RTK

Code key: CARC=Carcinogen; SUS=Suspected Carcinogen REPRO=Reproductive

SECTION 16 OTHER INFORMATION

INJECTION INJURY WARNING:

If product is injected into or under the skin, or into any part of the body, regardless of the appearance of the wound or its size, the individual should be evaluated immediately by a physician as a surgical emergency. Even though initial symptoms from high-pressure injection may be minimal or absent, early surgical treatment within the first few hours may significantly reduce the ultimate extent of injury.