

Material Safety Data Sheet

To comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200.

TITRA-LUBE TBN TEST KIT

SECTION 1 --- MANUFACTURER

Manufacturer's Name:

Dexsil Corporation

Emergency Telephone Number:

USA (800) 424-9300 (CHEMTREC)

INT'L (202) 483-7616

Address:

One Hamden Park Drive
Hamden, CT 06517

Telephone Number:

(203) 288-3509

Date Prepared: 12-01-07

Date Reviewed: 12-01-07

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

The TITRA-LUBE TBN Test Kit consists of one test tube containing two ampules, one test tube containing one ampule and an aqueous solution, and a filled plastic syringe.

<u>Component</u>	<u>Contents</u>	<u>CAS#</u>	<u>Concentration in kit</u>
<i>Ampule 1 (white-dot)</i>	Isooctane	540-84-1	6.60%
<i>Ampule 2 (blue-dot)</i>	[Hydrochloric Acid]* in Isopropanol	7647-01-0 67-63-0	7.50%/[0.1%]*
<i>Ampule 3</i>	Ethanol	64-17-5	1.51%
<i>Aqueous Sol'n</i>	[Sodium Chloride]* in water	7647-14-5	74.77%/[14.95%]*
<i>Plastic Syringe</i>	[Sodium Hydroxide]* in water	1310-73-2	9.63%/[0.08%]*

{*Bracketed component reported as a % of total liquid in kit}

SECTION 3 — HAZARDS IDENTIFICATION

Harmful if inhaled or swallowed.

May cause skin burns.

Ingestion will cause burns of the gastrointestinal tract.

For additional information on toxicity, please refer to Section 11.

SECTION 4 — FIRST AID MEASURES

First Aid

In case of contact with reagents, rinse well with water. In case of inhalation, remove to fresh air.

Eye Contact

For all kit components, flush eyes with large amounts of water for 15 minutes. Seek medical attention.

Skin contact

Flush with large amounts of water. Use soap and water to wash away organic components.

Inhalation

In case of inhalation, remove to fresh air.

SECTION 5 --- FIRE AND EXPLOSION HAZARD

Flash Point	Ampule 1	10°F
	Ampule 2	53°F
	Ampule 3	48°F
	Aqueous Solution	NA
	Plastic Syringe	NA

Flammable Limit Unknown

Extinguishing Media Dry chemical, foam, CO₂

Special Fire Fighting Procedures None.

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Protection Chemical safety glasses and rubber gloves

Spills and Leaks

Ampule 1 - Isooctane Ampule

Solvent absorbent recommended for spills. Flush area with water.

Ampule 2 - Hydrochloric Acid/Isopropanol Ampule

Absorb completely and dispose of as organic waste.

Ampule 3 - Ethanol Ampule

Solvent absorbent recommended for spills. Flush area with water.

Plastic Syringe

Flush area with water and neutralize with dilute acid. Absorb completely.

SECTION 7 — HANDLING AND STORAGE

Protective equipment Wear appropriate safety equipment when performing the test on site.

Storage Store test kits in a cool, dry place. Check expiration date prior to performing test.

SECTION 8 — EXPOSURE CONTROLS/ PERSONAL PROTECTIVE EQUIPMENT

Engineering Controls None required

Personal Protective Equipment(PPE)

Respiratory protection None required during normal use.

Ventilation Perform test only in a well-ventilated area.

Protective gloves Always wear rubber gloves when performing the TITRA-LUBE TBN test.

Eye protection Wear safety glasses.

General Hygiene Measures Wash after running tests

SECTION 9 --- PHYSICAL/CHEMICAL CHARACTERISTICS

<u>Property</u>	<u>Ampule 1</u>	<u>Ampule 2</u>	<u>Ampule3</u>	<u>Aq. Sol'n</u>	<u>Plastic Syringe</u>
Boiling Pt. °C	99	82.4	78	110	100
Vapor Pressure mm Hg @ 21°C	41	32	44	18	18
Solubility in Water	<0.1%	miscible	miscible	complete	miscible
Specific Gravity	0.69	0.79	0.79	1.15	1.05
Percent Volatile	100	99	99	none	none
Evaporation Rate Butyl Acetate =1	NA	1.4	2.7	NA	NA
Appearance	colorless	colorless	red-orange	colorless	colorless
Odor	faint	mild	pleasant none	none	none

N/A = Not Available

SECTION 10 — REACTIVITY DATA

Stability All components are stable.

Incompatible With Keep from strong oxidizers.

Hazardous Decomposition Productions Solutions are stable.

Hazardous Polymerization Will not occur.

Conditions to Avoid Excessive heat.

SECTION 11 — TOXICOLOGICAL INFORMATION

Carcinogenicity

NTP: No IARC: No Z List: No OSHA Reg: No

Toxicity Data

<u>Component</u>	<u>Contents</u>	<u>TLV/(PEL)</u>
<i>Ampule 1</i> (white-dot)	Isooctane	NA
<i>Ampule 2</i> (blue-dot)	[Hydrochloric Acid] in Isopropanol	5 ppm/(5 ppm) 980 mg/m ³ /(980 mg/m ³)
<i>Ampule 3</i>	Ethanol	1900 mg/m ³ /(1900 mg/m ³)
<i>Aqueous Sol'n</i>	[Sodium Chloride] in water	NA
<i>Plastic Syringe</i>	[Sodium Hydroxide] in water	2 mg/m ³ /(2 mg/m ³)

SECTION 12 — ECOLOGICAL INFORMATION

No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Test Tube 1

Contains reacted oil sample and solvent. Dispose of as an organic waste in accordance with all applicable federal, state and local environmental regulations.

Test Tube 2

Contains aqueous solutions and excess sodium hydroxide. Dispose of as a basic solution in accordance with all applicable federal, state and local environmental regulations.

SECTION 14 — TRANSPORTATION INFORMATION

DOT

Proper Shipping Name: None
Non-Hazardous for Transport: As originally packaged by Dexsil Corporation. Packaging conforms to conditions and limitations specified in 49 CFR 173.4.

IATA

Proper Shipping Name: Dangerous Goods in Accepted Quantities
IATA UN Numbers: 1219, 1987, 1262
Hazard Class: 3
Packing Group: II

SECTION 15 — REGULATORY INFORMATION

United States Regulatory Information

SARA Listed: Ethanol/methanol is identified on SARA Sec. 313.

TSCA Inventory Items: Ethanol/methanol.

CERCLA Listed: Ethanol/ methanol.

SECTION 16 — OTHER INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States OCCUPATIONAL SAFETY AND HEALTH ACT and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and the Canadian WORKPLACE HAZARDOUS MATERIALS INFORMATION SYSTEM. This document is intended only as a guide to the appropriate precautionary handling of the material by a person trained in, or supervised by a person trained in, chemical handling. The user is responsible for determining the precautions and danger of these chemicals for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes.

Exposure to this product may have serious adverse health effects. These chemicals may interact with other substances. Since the potential uses are so varied, Dexsil cannot warn of all of the potential dangers of use or interaction with other chemicals or materials. Dexsil warrants that the chemicals meet the specifications set forth on the label.

DEXSIL DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR PURPOSE.

The user should recognize that this product can cause severe injury and even death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Dexsil will periodically revise this Material Safety Data Sheet.

CHEMTREC emergency telephone number is to be used ONLY in the event of CHEMICAL EMERGENCIES involving a spill, leak, fire, exposure, or accident involving chemicals. All non-emergency questions should be directed to the Customer Service Dept. at 1-203-288-3509.

For additional information, contact Dexsil.

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