SAFETY DATA SHEET
Lube Oil T-500

***** SECTION I – IDENTIFICATION *****

MANUFACTURER NAME
RelaDyne Custom Blending
2250 Arthur Avenue
Elk Grove Village, IL 60007

PHONE NUMBER
708-599-87000

FOR EMERGENCIES: INFOTRAC 800-535-5053

PRODUCT NAME RelaTECH Lube Oil T-500

PRODUCT CODE 95168T500LO

RECOMMENDED USE Lubricant

RESTRICTIONS ON USE It is against federal law to use this product inconsistent with its labeling

***** SECTION II – HAZARD(S) IDENTIFICATION *****

OSHA Defined Hazards Irritant

GHS HAZARD CLASS

Physical Hazards Not classified

Health Hazards
Acute Toxicity – Category 4
Serious eye damage/eye irritation – Category 1
Skin Irritation – Category 1
STOT SE – Category 3

Environmental Hazards Not classified

GHS Symbol/Pictogram

Signal Word Danger

Hazard Statements
Harmful If Swallowed Or Inhaled
Causes Serious Eye Damage
Causes Severe Skin Burns & Eye Damage
May Cause Drowsiness Or Dizziness

***** SECTION II – HAZARD(S) IDENTIFICATION (continued) *****

Precautionary Statements

Prevention

Do not eat, drink or smoke when using this product
Avoid breathing dust, fumes, gas, mist, vapors, spray
Wash thoroughly after handling
Wear protective gloves, protective clothing, eye protection, face protection

Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician
Do not induce vomiting
IF ON SKIN: Wash with plenty of water
IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water
If skin irritation occurs, get medical advice/attention
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
If eye irritation persists, get medical advice/attention
IF INHALED: Remove person to fresh air and keep comfortable for breathing
Call a POISON CENTER/doctor/physician if you feel unwell
Specific treatment (see first aid section)
In case of fire: Use foam, CO2, dry chemical

Storage

Store in a well ventilated place. Keep container closed when not in use
Keep cool
Store locked up

Disposal

Dispose of contents/container in accordance with local/state/federal regulations
Avoid release to the environment

***** SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS *****

Substance _____ Mixture ___X__

Chemical Name	CAS#	%
Boric Acid	10043-35-3	1-5%
MEA	141-43-5	5-10%
Glycol Ether DB	112-34-5	10-15%

***** SECTION IV – FIRST AID MEASURES *****

Description Of Necessary First Aid Measures

Eye Contact

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. Get medical attention.

Skin Contact

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected gas or vapor is still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth to mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Ingestion

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Aspiration hazard if swallowed. Can enter lungs and cause damage. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

***** SECTION V – FIREFIGHTING MEASURES *****

Extinguishing Media

Suitable

Foam, CO_2, dry chemicals, water fog or mist.

Unsuitable

Do not use water jet.

Specific Hazards

In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

Hazardous Decomposition Products

Oxides of carbon.

Special Precautions – Fire Fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Move containers from fire area if it can be done without risk. No action shall be taken involving any personal risk or without suitable training.

Special Protective Equipment – Fire Fighters

Wear positive pressure self-contained breathing apparatus (SCBA) and full protective clothing.

***** SECTION VI – ACCIDENTAL RELEASE MEASURES *****

Personal Precautions, Protective Equipment And Emergency Procedures

For Non-Emergency Personnel

Take no action involving personal risk without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. Floors may be slippery, use care to avoid falling.

For Emergency Responders

If specialized clothing is required to deal with the spillage, take note of any information in Section VIII on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel".

Environmental Precautions

Avoid dispersal of spilled products and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product causes environmental pollution.

Methods And Materials For Containment And Cleaning Up

Small Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Absorb with an inert material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large Spill

Stop leak if without risk. Eliminate ignition sources. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Contain and collect spillage with noncombustible, absorbent material and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor.

***** SECTION VII – HANDLING & STORAGE *****

Precautions For Safe Handling

Protective Measures

Put on appropriate personal protective equipment (See Section VIII). Do not swallow. Avoid contact with eyes, skin, clothing. Avoid breathing vapor and mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice On General Occupational Hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash thoroughly after handling. Remove contaminated clothing and protective equipment before entering eating areas. See also Section VIII for additional information on hygiene measures.

Conditions For Safe Storage

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well ventilated area, away from incompatible materials (see Section X) and food and drink. Keep away from heat, sparks and open flame. Keep container tightly closed and sealed until ready for use. Store and use only in equipment/containers designed for use with this product. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

***** SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION *****

Exposure Limits

Ingredient Name	Exposure Limits	
Glycol Ether DB	ACGIH TLV-TWA	10 ppm
MEA	ACGIH TLV-TWA	3 ppm
	ACGIH TLV-STEL	6 ppm
	NIOSH TWA	8 mg/cubic meter
	NIOSH ST	15 mg/cubic meter
	OSHA TWA	6 mg/cubic meter
	OSHA STEL	15 mg/cubic meter
Boric Acid	ACGIH TLV-TWA	10 mg/m3
	OSHA PEL-TWA	15 mg/m3

Appropriate Engineering Controls

Provide exhaust ventilation or other engineering controls to keep the relevant airborne concentrations below their respective occupational exposure limits.

Hygiene Measures

Wash hands, forearms and face thoroughly after handling chemical products and before eating, smoking or using the lavatory as well as at the end of the work period. Wash contaminated clothing before reusing.

Respiratory Protection

A NIOSH/MSHA approved air purifying respirator with an organic vapor cartridge or canister may be necessary under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Eye Protection

Safety glasses equipped with side shields in conjunction with a face shield are recommended in industrial settings.

Skin Protection

Wear impervious protective gloves. Wear protective gear as needed - apron, suit, boots.

***** SECTION IX – PHYSICAL & CHEMICAL PROPERTIES *****

Appearance

Physical State	Liquid
Color	Yellow
Odor	Sweet
Odor Threshold	Not available
Ph	9.5 @ 5%
Melting Point	32 F
Freezing Point (Pour Point)	32 F
Initial Boiling Point	212 F
Boiling Range	212 F
Drop Point	Not applicable
Flash Point	None to boiling
Evaporation Rate	Does not evaporate

***** SECTION IX – PHYSICAL & CHEMICAL PROPERTIES (continued) *****

Explosive Limits	
Upper	Not available
Lower	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity	1.0
Density	8.36 Pounds/gallon
Solubility	Soluble in water
Auto Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Not available
Partition coefficient (n-octanol/water)	Not available
Volatile Organic Compounds	None

***** SECTION X – STABILITY & REACTIVITY

Reactivity

Not expected to be Explosive, Self-Reactive, Self-Heating, or an Organic Peroxide under US GHS definitions

Chemical Stability

This product is stable under normal conditions.

Possibility Of Hazardous Reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions To Avoid

Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible Materials

Reactive or incompatible with the following materials: Strong oxidizing agents.

Hazardous Decomposition Products

Oxides of carbon

***** SECTION XI – TOXICOLOGICAL INFORMATION *****

Primary Routes Of Exposure: Eye contact, Ingestion, Inhalation, Skin contact

Acute Toxicity: Acute Toxicity – Category 4 (Oral)

Information On Toxicological Effects - Effects Of Overexposure

Inhalation Vapors can cause irritation of the respiratory tract. High concentrations can cause headache, nausea, weakness, lightheadedness, and stupor (CNS depression).

Skin Contact Causes severe skin burns**.** Prolonged or repeated contact can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). Personnel with pre-existing skin disorders should avoid contact with this product.

Eye Contact Contact with the eye causes serious damage. May cause tearing, redness and discomfort.

Ingestion This material is harmful or fatal if swallowed or liquid is aspirated into lungs. Ingestion may cause gastrointestinal tract irritation. May cause diarrhea.

Chronic Hazards Defatting of the skin.

Sensitization

Respiratory Not classified

Skin Sensitization Not classified

Germ Cell Mutagenicity Non-mutagenic based on Modified Ames Assay

Carcinogenicity Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. This product is not listed as a carcinogen by IARC, OSHA, NTP.

Fertility Effects Contains no ingredient listed as toxic to reproduction

Specific Target Organ Toxicity

Single Exposure May cause drowsiness or dizziness

Repeated Exposure Not classified

Aspiration Hazard Not classified

***** SECTION XII – ECOLOGICAL INFORMATION *****

Ecotoxicity
Not available

Persistence & Degradability
Not available

Bioaccumulative Potential
Not available

Mobility In Soil
Not available

Other Adverse Effects
No known significant effects or critical hazards.

***** SECTION XIII – DISPOSAL CONSIDERATIONS *****

Disposal Methods
Waste generation should be avoided or minimized wherever possible. Dispose of in accordance with federal, state, and local regulations. After the container has been emptied, it may contain hazardous residues. Avoid sparks and open flame. Do not cut, puncture, or weld on or near the container. Do not reuse the container for any purpose until properly reconditioned.

RCRA Classification
Not a hazardous waste

***** SECTION XIV – TRANSPORT INFORMATION *****

DOT

UN#	Not regulated
UN SHIPPING NAME	Not regulated
Transport Hazard class	None
Packing Group	None

***** SECTION XV – REGULATORY INFORMATION *****

TSCA Section 12(b) Export notification (40 CFR 707 Subpart D): None

CERCLA Hazardous Substance List (40 CFR 302.4): Not listed

US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed

SARA Section 302 – Threshold Planning Quantity : None

SARA Title III – Section 311/312

Immediate/Acute Health Effects	: Yes
Fire Hazard	: No
Delayed/Chronic Health Effects	: Yes
Reactivity Hazard	: No
Sudden Release Of Pressure Hazard	: No

Chemical Release Reporting:

SARA Section 313	: Not listed
CERCLA	: Not listed

TSCA Inventory **:** All product ingredients are listed on the chemical inventory.

Clean Air Act

Ozone Depleting Compounds	: No

***** SECTION XVI – OTHER INFORMATION *****

The above mentioned information is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition the person receiving it shall make his own determination as to the suitability of the material for his particular use and on the condition he assume the risk of his use thereof.

HMIS HAZARD CLASS:

Health	1 (Slight)
Fire	1 (Slight)
Reactivity	0 (Least)
Personal Protection	B

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