

MATERIAL SAFETY DATA SHEET

SECTION I - PRODUCT IDENTIFICATION

Product name: GREASOMATICi
Chemical formula: Complex mixture
Product family: Electrolyte solution, organic acid
Product use: Automatic lubricant dispenser

Supplier name & address:
Comlube Technology Inc.
110 Scotia Court #34
Whitby, Ontario, L1N 8Y7
Telephone #: (905) 438-8418

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>%</u>	<u>LC₅₀, ppm (Rat, inh.)</u>	<u>LD₅₀, mg/kg (Rat, oral)</u>
Citric acid	77-92-9	15-40	11,700 mg/kg	Not available

SECTION III - PHYSICAL DATA

Physical state, odour and appearance:	Colourless liquid, with mildly sweet odour, sealed in the expansion chamber	Specific gravity:	1.18
Odour threshold:	Not available	Vapour pressure (mm Hg):	Not available
Coefficient of water/oil distribution:	Not available	Freezing point:	Approx. 0°C
Boiling point:	Approx. 100°C	Vapour density (Air=1.0):	Not available
pH:	Approx. 4.5	Solubility in water (w/w):	Soluble in all proportions
Evaporation rate (n-BuAc=1.0):	Not available	Volatiles, % by volume:	Not available
Volatiles, % by weight:	Not available		

SECTION IV - FIRE AND EXPLOSION DATA

Conditions of flammability: Not flammable under normal conditions, but may be ignited by very strong ignition sources.
If yes, under which conditions: Activated/spent units contain up to 0.02 g of highly flammable hydrogen gas within expansion chamber.
Means of extinction: Water fog, carbon dioxide, dry chemical or foam, as suitable for surrounding fire.
Sensitivity to mechanical impact/static discharge: Not sensitive to static discharge or impact under normal handling conditions
Flash point (Method): None
Upper flammable limits (% by volume): Not applicable
Lower flammable limits (% by volume): Not applicable
Auto-ignition temperature: Not known
Hazardous combustion products: Oxides of carbon, nitrogen, oxides of metals from the galvanic unit, and decomposition products of burning plastic.

SECTION V - REACTIVITY DATA

Stability: Stable. Hazardous polymerization will not occur.
Incompatible materials: Keep leaking electrolyte from contact with oxidizers or strong alkalis.
Conditions of reactivity: Keep activated and used units away from ignition sources.
Hazardous decomposition products: Oxides of carbon, nitrogen, oxides of metals from the galvanic unit, and decomposition products of burning plastic.

SECTION VI - TOXICOLOGICAL PROPERTIES

LD₅₀ of material: See Section 2
Routes of entry: Skin contact, eye contact, ingestion
LC₅₀ of material: See Section 2

Skin contact: Electrolyte is a mild skin irritant. Not likely to be absorbed through skin.
Eye contact: Dripping or splashing of electrolyte into eyes will cause moderate to severe irritation.
Inhalation: Electrolyte heated to produce a mist may cause mild irritation to nose and throat upon inhalation.
Ingestion: Swallowing will cause mild to moderate irritation to mouth, throat and esophagus. May cause stomach pain and vomiting.

Exposure limits: Not established.

Acute effects: See under %Routes of entry+. Adverse effects are not expected under normal handling conditions.

Chronic effects: Prolonged skin contact may cause dermatitis.

Carcinogenicity: No component present at 0.1% or higher in the electrolyte solution is listed as carcinogenic by the International Agency for Research on Cancer (IARC) or the American Conference of Government Industrial Hygienists (ACGIH).

Teratogenicity, mutagenicity, other reproductive effects: Not expected to cause reproductive harm.

Sensitization to material: Product is not known to cause allergies.

Synergistic materials: None known.

SECTION VII - FIRST AID

Inhalation: Remove source of contamination, and remove victim to fresh air. Get medical attention right away for any breathing problems.

Skin: Wear impervious gloves. Wash affected area with lukewarm, gently-flowing water. Under running water, remove contaminated clothing. If irritation persists, see a doctor.

Eyes: Immediately flush eyes with large quantities of lukewarm, gently-flowing water for at least 15 minutes, while holding eyelids open. Get medical attention immediately.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth thoroughly with cold water, then have victim drink several glass of water. However, never give anything by mouth if victim is unconscious rapidly losing consciousness or vomiting. If vomiting occurs naturally, lean victim forward to prevent aspiration of material. Get immediate medical attention.

General comments: All first-aid procedures should be reviewed by a physician familiar with product and its conditions of use in the workplace.

SECTION VIII - PREVENTIVE MEASURES

Spill, leak or release: Avoid contact with spilled material. Wear adequate protective clothing. Prevent release into waterways and sewers. Soak up small spills with inert materials, such as sand, clay or vermiculite. Place used absorbent in closed and labelled containers. Flush residue of spill with water.

Waste disposal: Dispose of waste in accordance with all local, provincial and federal regulations.

Protective equipment:

Respiratory/type: No respiratory protection required for normal conditions of use.

Gloves/type: Wear chemical-resistant gloves, such as natural rubber, Neoprene, nitrile rubber, polyvinyl chloride (PVC), butyl rubber or Viton[®].

Eye/type: Wear chemical safety goggles, preferably with side shields. A face shield may also be necessary if dripping onto the face is a possibility during use.

Footwear/type: Wear safety boots as per health and safety regulations

Other/type: Emergency shower and eye wash station should be close to work area.

Engineering controls: No special controls are needed for normal conditions of use.

Handling procedures and equipment: This MSDS pertains primarily to the liquid electrolyte permanently sealed within the expansion chamber. Exposure to this electrolyte can only occur as a result of severe mechanical damage or deliberate interference with a GREASOMATIC[®] unit. In event of a complete blockage of the lubricant channel, the internal pressure in the GREASOMATIC[®] will build up until the pressure relief valve operates to release the lubricant, but not the electrolyte or hydrogen. Ruptured units may release electrolyte (and hydrogen, if activated).

Storage requirements: Store between 0°C and 40°C. Used units must be stored away from sources of heat and ignition.

Special shipping instructions: Not regulated by Transportation of Dangerous Goods Regulations. Protect container against damage.

SECTION IX - PREPARATION INFORMATION

Prepared by: Comlube Technology Inc.

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Preparation date: December, 2009

The information and data presented herein are based on test, reports and research we believe to be accurate and reliable. The information and data are provided without warranty, guarantee or liability on our part and are therefore, provided to our customers for their own investigation, verification and consideration.