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EMERGENCY: INFOTRAC 1-800-535-5053 24 HOURS/DAY, 7 DAYS/WEEK

This MSDS Complies With 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I – IDENTIFICATION

Product Name: Toughcut ML 200
Chemical Identification: Vegetable Methyl Ester
CAS #: 91788-60-1

SECTION II – INGREDIENTS AND HAZARD CLASSIFICATION

Sara Hazard: None noted (section 311/312)
Title III Section 313 – Not Listed
OSHA Regulations 29 CFR 1910:1200: Non-hazardous

SECTION III – PHYSICAL DATA

Boiling Point, 760 mm Hg: >200°C
Specific Gravity (H₂O = 1): 0.85
Vapor Pressure, mm Hg: <1 @ 25° C
Vapor Density, (Air = 1): Not applicable
Volatiles, % by Volume: Not applicable
Solubility in H₂O, % by Volume: Insoluble
Evaporation Rate, Butyl Acetate = 1: Not applicable
Appearance and Odor: Light amber liquid with faint fatty odor
Viscosity @ 40°C: <45 SUS

SECTION IV – FIRE AND EXPLOSION DATA

Flash Point (Method Used): 425°F Min – Cleveland Open cup
LEL: Not applicable **UEL:** Not applicable
Flammability Limits: Not applicable
Extinguishing Media: Dry chemical, foam, halon, CO₂, water spray (fog). Water stream may splash burning liquid and spread fire.

SECTION V – FIRE FIGHTING MEASURES

Special Fire Fighting Procedures: This product will burn (although not readily) if involved in a fire and may possibly emit toxic fumes. Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots) including a positive-pressure NIOSH approved self-contained breathing apparatus.

Use water spray, foam, dry chemicals, CO₂ sand/earth to extinguish fire.

Unusual Fire and Explosion Hazards: None

SECTION VI – REACTIVITY DATA

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions and Materials to Avoid: Extreme heat, flame or addition of strong oxidizing materials such as chromic acid, hydrogen peroxide and bromine may cause decomposition. Product may react with very strong bases to produce methanol. CO, CO₂ and other organic compounds may be formed during incomplete combustion.

SECTION VII – HEALTH HAZARD INFORMATION

Inhalation: Inhalation hazard is negligible unless heated to produce vapors or as a mist. Vapors or finely misted materials may irritate the mucous membranes and cause irritation, dizziness, and nausea.

If in Eyes: Eye contact may cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.

If on Skin: Prolonged or repeated contact with the skin may cause irritation of the hair follicles and block sebaceous glands, causing rash, acne, or dermatitis.

Ingestion: Product is believed to be non-toxic. Seek medical attention if symptoms persist or if material is ingested in large quantities.

SECTION VIII – FIRST AID

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes.

Skin: Wash exposed areas of the body with soap and water.

Inhalation: Remove from area of exposure; seek medical attention if symptoms persist.

Ingestion: Give two glasses of water. Call a physician for advice.

SECTION IX – PROTECTIVE EQUIPMENT TO BE USED

Respiratory Protection: Respirators approved for organic vapors.

Protective Clothing: Safety glasses, goggles or face shield recommended protecting eyes from mists or splashing. Neoprene or rubber gloves recommended preventing skin contact.

Other Protective Measures: Must practice good personal hygiene, washing exposed areas of the skin several times daily and laundering contaminated clothing before re-use.

SECTION X – ACCIDENTAL SPILL OR RELEASE

Spill Clean up Procedures: Remove sources of ignition. Contain spill to smallest area possible. Stop leak if possible. Pick up small spills with absorbent materials such as paper towels, “Oil Dry”, sand or dirt. Recover large spills for salvage or disposal. Wash hard surfaces with safety solvent or detergent to remove remaining oil film. Greasy nature will result in a slippery surface.

Waste Disposal Method: A licensed waste disposal company may dispose of waste. Contaminated absorbent material may be disposed in an approved landfill. Follow all local, state, and federal regulations.

Environmental Hazards: None

SECTION XI – HANDLING AND STORAGE

Do not eat or drink while handling the material. Wash hands thoroughly with soap and water before eating. Do not transfer the material to unmarked containers. Store in closed containers away from extreme heat, sparks, open flame, or oxidizing materials. To preserve color and quality of material, do not store material at a temperature of >150° F for a long period of time. Fire extinguishers should be kept available at all times.

SECTION XII – SPECIAL PRECAUTIONS

Use good engineering practices to establish good ventilation. For normal use, wear rubber gloves, coveralls, boots and gloves. If a mist of this material is present or the ventilation is poor, use a mist type respirator and a local exhaust for the mist.

SECTION XIII – TOXICOLOGY

PEL/TLV: **5.0 mg/m3 (mist)**

STEL: **not determined**

Acute Toxicity Data: Acute Oral LD50 – not determined
Acute Dermal – Not determined
Acute Inhalation LC50 – not determined

SECTION XIV – ECOLOGICAL INFORMATION

No specific data is available. Product is biodegradable.

SECTION XV - REGULATORY INFORMATION

All components are listed on the TSCA Chemical Inventory.

SECTION XVI – TRANSPORTATION REQUIREMENTS

US DOT: Not Regulated

IATA/ICAO: Not Regulated

Prepared By: Sharon L. Haiser

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