

SAFETY MANUAL

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SAFETY DATA SHEET**1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product Name: Brown Lubricant
Manufacturer: Metlab Corporation
Address: 4011 Hyde Park Blvd
City, State, Zip: Niagara Falls NY 14305
Phone Number: 800-828-6866
Emergency Phone: 888-255-3924
Hazardous Spill Response:

2.0 HAZARD IDENTIFICATION**GHS Classification: Hazardous**

Flammable Liquid Category 3 – H226
Acute Toxicity Category 3 – H331
Aspiration Toxicity Category 1 – H304

IDLH (Immediate Danger to Life and Health): None

Physical Hazards: Not Classified

Health Hazards:

Specific Target Organ Toxicity – Lungs: Repeated Exposure Category 1

Label Elements:

Flammable



Acute Toxicity

Aspiration
Hazard

Signal Word: Danger

Hazard Statement(s):

H226: Flammable Liquid and Vapour

H304: May be fatal if swallowed and enters airways

H331: Toxic if inhaled

P210: Keep away from heat, sparks, open flames, hot surfaces. - No smoking

P233: Keep container tightly closed

P240: Ground/bond container and receiving equipment

P241: Use explosion-proof electrical, ventilating, lighting equipment

P242: Use only non-sparking tools

P243: Take precautionary measures against static discharge

P261: Avoid breathing mist, vapors, spray

P271: Use only outdoors or in a well-ventilated area

P280: Wear protective gloves, protective clothing, eye protection, face protection

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Precautionary Response:

P301+P310; IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
P303+P361+P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
P331 - If swallowed, do NOT induce vomiting
P370+P378: In case of fire: Use carbon dioxide (CO2), powder, alcohol-resistant foam for extinction
P403+P233: Store in a well-ventilated place. Keep container tightly closed
P403+P235: Store in a well-ventilated place. Keep cool
P501: Dispose of contents/container to comply with local, state and federal regulations

3.0 COMPOSITION & HAZARDOUS INGREDIENTS

The terms “hazardous” and “hazardous materials” as used within this SDS (EU - MSD) should be interpreted as defined by, and accordance with, the OSHA Hazard Communication Standard (29 CFR 1910:1200) and the EU Occupational Exposure Limits (OEL) REGULATION (EC) No 1272/2008 including cited Appendices, Lists, References, etc., all of which are hereby incorporated by reference and stated below as appropriate.

OECD SIDS documents published by UNEP Chemicals in response to its mandate to facilitate the access to information needed for health and environmental risk assessment of chemicals. The documents contain the information gathered and an Initial Assessment performed under the framework of the OECD HPV Chemicals Programme.

Substance	CAS Number	EC Number	Percent by Weight
Ethanol	64-17-5	200-578-6	50.0% - 80.0%
Proprietary Ingredients	N/A	N/A	20.0% - 50.0%
Proprietary Non-Haz Fragrance	N/A	N/A	0.0% – 1.0%
Proprietary Non-Hazardous Dye	N/A	N/A	0.0% – 1.0%

Hazardous Mixtures: None
(See Section 8.0 for Occupational Exposure Limits)

4.0 FIRST AID MEASURES

First-aid measures general : Check the vital functions. Unconscious: maintain adequate airway and respiration. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform resuscitation. Victim conscious with labored breathing: half-seated. Victim in shock: on his back with legs slightly raised. Vomiting: prevent asphyxia/aspiration pneumonia. Prevent cooling by covering the victim (no warming up). Keep watching the victim. Give psychological aid. Keep the victim calm, avoid physical strain. Depending on the victim's condition: doctor/hospital.

First-aid measures after inhalation: If inhaled, remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact: Rinse immediately with plenty of water. Gently wash with plenty of soap and water. Obtain medical attention if irritation persists.

First-aid measures after eye contact: Immediately rinse with water for a prolonged period while holding the eyelids wide open. Seek medical attention if material is embedded in eye. If eye irritation persists: Get medical advice and attention.

First-aid measures after ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Symptoms/injuries: Repeated or prolonged inhalation may damage lungs.

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Symptoms/injuries after inhalation:	May cause irritation to the respiratory tract, sneezing, coughing, burning sensation of throat with constricting sensation of the larynx and difficulty in breathing. Dizziness. Headache. Narcosis.
Symptoms/injuries after skin contact:	Dry Skin. Redness and cracking of the skin.
Symptoms/injuries after eye contact:	Redness, pain.
Symptoms/injuries after ingestion:	Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.
Chronic symptoms:	Respiratory difficulties and lung damage.

5.0 FIRE-FIGHTING MEASURES

Fire Hazard:	Flammable
Extinguishing Media:	Use BC type fire extinguisher, or Carbon Dioxide in a large area.
Special Firefighting Procedures:	Typical for gasoline or other flammable fuels.
Unusual Fire and Explosion Hazards:	Gas and vapor are explosive with air within explosion limits.
Reactivity:	Upon combustion, CO and CO ₂ are formed.
Protective Equipment for Firefighting:	Self-Contained Breathing Apparatus and clothing for chemical fires.
Protection During Firefighting:	Use normal individual fire protective equipment.
Precautionary Measures Fire:	Exposure to fire / heat: keep upwind. Exposure to fire / heat: consider evacuation. Exposure to fire / heat: seal off low-lying areas. Exposure to fire / heat: have residence shelter in place.

6.0 ACCIDENTAL RELEASE MEASURES**Personal Precautions / Protective Equipment:**

Do not touch damaged containers or spilled material unless wearing appropriate protective equipment. Do not breathe vapor, gas, fume or spray. Ventilate area or wear SCBA.

Environmental Precautions: Prevent further leakage or spillage and comply with local, state and federal regulations.

Methods / Materials for Containment & Clean-up:

Mark the danger area. Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment. Wash contaminated clothes.

Large Spills: Dike the spilled area. Absorb with vermiculite, dry sand or earth and place into containers. Flush area with water and dispose accordingly. Section 13 of this SDS.

Small Spills: Absorb with vermiculite, dry sand or earth and place into containers. Flush area with water and dispose accordingly.

7.0 HANDLING & STORAGE**Precautions for Safe Handling:**

Wear suitable protective clothing and eye/face protection. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid breathing spray or mist.

Conditions for Safe Storage:

Store in original tightly closed container. Keep away from food, drink and animal feeding stuffs. Use care in handling / storage. Take precautions against electrostatic charges. Keep away from open flames / heat. Keep away from ignition sources / sparks. Avoid prolonged and repeated contact with skin. Keep container tightly closed. Measure the concentration in the air regularly. Work under local exhaust / ventilation. Store in accordance with local / regional / national / international regulation. **SUITABLE CONTAINER: stainless steel, carbon steel, polyethylene, polypropylene.**

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8.0 EXPOSURE CONTROLS & PERSONAL PROTECTION

Control Parameters

Ethanol – 64-17-5

ACGIH TWA (mg/m ³)	1000 mg/m ³
ACGIH STEL	1000 mg/m ³
ACGIH TLV	1000 mg/m ³
NIOSH REL (TWA) (mg/m ³)	1000 ppm
OSHA PEL (TWA) (mg/m ³)	1900 ppm
(Air Contaminates)	
IDLH (mg/m ³)	Not Available
OECD SIDS UNEP TLV	Not Available
BAuATRGs 900	Not Available

TLV: Threshold Limit Value of a chemical substance is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse health effects.

TWA: (Time Weighted Average - TLV-TWA): average exposure on the basis of a 8h/day, 40h/week work schedule

STEL: (Short Term Exposure Level) is an employee's 15-minute time weighted average exposure at any time during a work day and cannot be repeated more than 4 times in a day.

Personal Protective Equipment: Wear chemical resistant clothing, chemical goggles and chemical resistant gloves while handling under normal conditions.



Respiratory Protection: In case of inadequate ventilation or risk of inhalation of vapors, use suitable respiratory equipment. Use an appropriate NIOSH approved respirator if airborne fume concentrations exceed the appropriate PEL or TLV. Wear air supplied respiratory protection if exposure concentrations are unknown. All requirements set forth in 29CFR1910.134 must be met.

Protective Gloves: Butyl Rubber and Nitrile gloves are recommended. Be cautious as the liquid may penetrate the glove. Frequent change is advisable.

Ventilation: Use local exhaust ventilation which is adequate to limit personal exposure to airborne fumes to levels which do not exceed the appropriate PEL or TLV. If such equipment is not available, use respiratory protection as specified above.

Eye protection: Chemical / splash goggles are recommended. Eye wash station must be present.

Other Equipment: None

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9.0 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: Liquid, Fragrance + Alcohol
 Color: Brown
 Physical State: Liquid
 pH: Not Available
 Viscosity: Not Available
 Specific Gravity: Not Available
 Vapor Density: Not Available
 Vapor Pressure: Not Available
 Melting Point: Not Applicable
 Boiling Point: 185 F
 Flash Point: 68 F Closed Cup
 Freezing Point: Not Available
 Percent Volatility: Not Available
 Evaporation Rate (baC=1) Not Available
 Solubility in Water: Completely Soluable
 Solubility in Oil: Not Soluable
 Solubility in Solvents: Not Available

10.0 STABILITY AND REACTIVITY

Reactivity: Hazardous reaction will not occur under normal conditions.

Stability: This composition is stable under normal conditions.

Incompatibility (materials to avoid): Strong Oxidizers, Peroxides, Ammonia, Alkali Metals

Hazardous Decomposition Products: Carbon and Nitrogen Oxides.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Strong oxidizing agents. Heat, flames and sparks. Avoid temperatures exceeding the flash point

11.0 TOXICOLOGICAL INFORMATION

Ethanol – 64-17-5

Acute Toxicity – Oral - LD50 – 7060 mg/kg (Rat)
 Acute Toxicity – Dermal - LD50 – No Data
 Acute Toxicity – Inhalation - LD50 – 20,000 mg/kg (10H) (Rat)

Acute Toxicity: Toxic if inhaled

Skin Corrosion / Irritant: Irritating to skin.

Serious Eye Damage / Irritant: Eye Irritant

Respiratory / Skin Sensitisation: Not Classified

Germ Cell Mutagenicity: Not Classified

Carcinogenicity: Not Classified

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Reproductive Toxicity: Humand, Female, Oral – Neonatal Measures or Effects
Target Organ Toxicity (Single Exposure): May cause respiratory / skin irritation.
Target Organ Toxicity (Repeated Exposure): May adversely affect the liver and kidney based on animal testing.
Aspiration Hazard: Toxic if inhaled
Teratogenicity: Avoid contact during pregnancy or while nursing.

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12.0 ECOLOGICAL INFORMATION

Ethanol – 64-17-5
Aquatic:
Fish – LC50 – No Data Available
Fish – EC50 – No Data Available
Threshold Limit Algea – No Data Available

Ecotoxicity: No information available
Persistence and Degradability: No information available
Bioaccumulative Potential: No information available
Mobility in Soil: No information available
Other Adverse Effects: Environmental hazards cannot be excluded by inappropriate handling or disposal.

13.0 DISPOSAL CONSIDERATION

Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals. Recycle by distillation. Do not landfill. Incinerate under surveillance with energy recovery. Do not discharge into drains or the environment. Use appropriate containment to avoid environmental contamination.

Dispose in a safe manner in accordance with local, state and federal regulations.

14.0 TRANSPORT INFORMATION

US DOT Classification: 3 – Flammable and Combustable
Proper Shipping Name: Ethanol Solutions
UN Number: UN1170
Packing Group: II
Label: 3 – Flammable Liquids
Reportable Quantity: Not Reportable
Hazard Class: 3

IMO Classification: 3.2 - Flammable Liquid
IMO PSN Code: GPL



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IMO Proper Shipping Name:	Ethanol Solutions
IMO Regulation Page Number:	3219
IMO UN Number:	1170
IMO UN Class:	3.2
IATA Classification:	3 – Flammable Liquid
IATA PSN Code:	KXQ
IATA Proper Shipping Name:	Ethanol Solutions
IATA UN ID Number:	1170
IATA UN Class:	3
IATA Label:	Flammable Liquid
DOT Passenger Aircraft Limitations:	60 L
DOT Cargo Aircraft Limitations:	220 L
DOT Special Provisions (49 CFR 172.102):	None

15.0 REGULATORY INFORMATION

U.S. Federal Regulations:
Comprehensice Environmental Response Compensation and Liability Act of 1980 (CERCLA):
 No reportable quantity for this product.

Toxic Substance Control Act (TSCA):
 All of the components of this material are listed on the TSCA Chemical Substances Inventory.

Clean Water Act (CWA):
 Listed under sections of the Clean Water Act. CWA Section 1321. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Clean Air Act (CAA):
 Listed under various sections of the Clean Air Act. Contact your local / state authorities to determine if substances are regulated under their jurisdiction.

Superfund Amendments and Reauthorization Act (SARA) Title III Information:
 This product contains chemicals subject to annual release reporting requirements Under SARA Title III, Section 313 (40 CFR 372). Fire Hazard.

EUROPEAN / INTERNATIONAL REGULATIONS:
Control of Substances Hazardous to Health (COSHH):
 Component(s) are listed under various sections of the COSHH regulation. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Scottish Environmental Protection Agency (SEPA):
 Component(s) are listed under various sections of SEPA. Contact your local authorities to determine if substances are regulated under their jurisdiction.

Canada:
 Components are listed on the Canadian DSL (Domestic Sustances List) inventory.
 WHMIS Classification:
 Class B Division 3 – Combustible Liquid
 Class D Division 2 Subdivision B – Toxic material causing other toxic effects.

Hazard Classification
European Union Directives 67/548/EEC and 1999/45/EC

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Safety Phrases: S 23 Do not breathe fumes
S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
S 38 In case of insufficient ventilation wear suitable respiratory equipment.
S 36 Wear suitable protective clothing.
R10, XnI R65m R66, R67

U.S. STATE REGULATORY INFORMATION: The components of these products are covered under specific State regulations, as denoted below:

New Jersey Right to Know Components: Ethanol 64-17-5

CALIFORNIA PROPOSITION 65: This product does not contain chemicals regulated under California Proposition 65.

International Air Transport Authority (IATA): Hazardous air transport. See Section 14

16.0 OTHER INFORMATION

NFPA health hazard	2 - Can cause temporary incapacitation or residual injury.
NFPA fire hazard	3 – Can be ignited under almost all ambient temperature conditions.
NFPA reactivity	0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health	2 – Moderate Hazard
Flammability	3 – High Hazard
Physical	0 – Minimal Hazard
Personal Protection	H

Reference:

UNEP Publications, OECD SIDS, Chemical Abstract Search (CAS) Database, European Chemicals Agency (ECHA), Workplace Hazard Material Information System (WHMIS)

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; WHMIS=Workplace Hazard Material Information System; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

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