

Safety Data Sheet

SECTION I - IDENTIFICATION

PRODUCT NAME: B-LUBE (MCF)
PRODUCT CODE: 7210-A
PRODUCT USE: Dry Lubricant
COMPANY NAME: BETA TECHNOLOGY, INC.
COMPANY ADDRESS: P.O. BOX 218686, HOUSTON, TX 77218
COMPANY PHONE: 281-647-9700
EMERGENCY PHONE: 800-535-5053

SECTION II – HAZARDS IDENTIFICATION

CLASSIFICATION: Flammable Aerosol: Category 1

Liquefied Gas

Skin Irritant: Category 2

Eye Irritant: Category 2A

Reproductive Toxicity: 1B

HAZARD STATEMENT(S): DANGER: Extremely Flammable Aerosol Contains gas under pressure: May explode if heated. Causes skin and serious eye irritation. May damage fertility or the unborn child.

This product contains the following percentage of chemicals of unknown toxicity: 6%

PRECAUTIONARY STATEMENTS: Keep away from heat, sparks, open flames, and hot surfaces. -No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50C/122F. Store in a well-ventilated place. Wash hands thoroughly after handling. Wear protective gloves and eye protection. If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. 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 attention. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. If exposed or concerned: Get medical advice or attention. Store locked up. Dispose of contents and container in accordance with local, state, and national regulations.



SYMBOL:

HAZARDS NOT OTHERWISE CLASSIFIED: N/A

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	PERCENT
Acetone	67-64-1	30-60%
Isopropyl Alcohol	67-63-0	10-30%
Propane/n-Butane	68476-86-8	15-40%
Toluene	108-88-3	3-7%
Glycol Ether DPM	34590-94-8	1-5%

SECTION IV - FIRST AID MEASURES

EYES: 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 or attention.

INGESTION: Do not induce vomiting unless directed by medical authority. Immediately rinse mouth with water. Drink large quantities (1 qt, 2-4 glasses) of water. Seek immediate medical attention.

INHALATION: If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.

SKIN: Immediately wash with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation develops.

ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision

Skin: defatting and dermatitis

CHRONIC HEALTH HAZARDS: May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).

Safety Data Sheet

NOTE TO PHYSICIAN: There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, and alcohol foam.

UNSUITABLE EXTINGUISHING MEDIA: Water spray/stream.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep away from sparks, open flames, and hot surfaces. No smoking. Do not spray on an open flame or other ignition source.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PROTECTIVE EQUIPMENT: Refer to section VIII for proper Personal Protective Equipment.

SPILL: Wipe up with rag or use some absorbent clay material. remove any source of ignition. use non-sparking tools and equipment.

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations.

RCRA STATUS: Waste solvent likely considered U220 (Toluene), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Protect from sunlight. Store in a well ventilated place. Do not expose to temperatures exceeding 50°C/122°F. Pressurized container: Do not pierce or burn, even after use. Store locked up.

OTHER PRECAUTIONS: Keep out of the reach of children.

INCOMPATIBILITY: Concentrated nitric & sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine compounds, acids, plastics, rubber, coatings.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

HAZARDOUS INGREDIENT	OSHA PEL	ACGIH TLV
Acetone	1000 ppm	750ppm
Isopropyl Alcohol	400 ppm	200 ppm
Propane/n-Butane	1000 ppm	1000 ppm
Toluene	200 ppm	20 ppm
Glycol Ether DPM	100 ppm	100 ppm

ENGINEERING CONTROLS / VENTILATION: Normal, forced ventilation required. Local exhaust ventilation is generally preferred.

RESPIRATORY PROTECTION: Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.

PERSONAL PROTECTIVE EQUIPMENT: Safety glasses and chemical resistant gloves

ADDITIONAL MEASURES: Wash hands thoroughly after handling.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Black Liquid

ODOR: Solvent odor

ODOR THRESHOLD: N/D

BOILING POINT: N/D

FREEZING POINT: N/D

FLAMMABILITY: Extremely Flammable Aerosol

FLASH POINT: N/D

AUTOIGNITION TEMPERATURE: N/D

LOWER FLAMMABILITY LIMIT: N/D

Safety Data Sheet

UPPER FLAMMABILITY LIMIT: N/D
VAPOR PRESSURE (mm Hg): 77.3 @ 77°F (25°C)
VAPOR DENSITY (AIR=1): > 2
EVAPORATION RATE: > 1
SPECIFIC GRAVITY (H₂O=1): .830 @ 77° F
pH: N/A
SOLIDS (%): 4.5%
SOLUBILITY IN WATER: 63%
PARTITION COEFFICIENT: n-OCTANOL/WATER (K_{ow}): N/D
VOLATILITY INCLUDING WATER (%): 95%
VOLATILE ORGANIC COMPOUNDS (VOC): 43%
DIELECTRIC STRENGTH (Volts): N/A
DECOMPOSITION TEMPERATURE: N/D
VISCOSITY: N/D

SECTION X – STABILITY AND REACTIVITY DATA

REACTIVITY: None Known
CHEMICAL STABILITY: Stable
CONDITIONS TO AVOID: None known
INCOMPATIBILITY: Concentrated nitric & sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine cmpnds, acids, plastics, rubber, coatings.
HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon
POSSIBLE HAZARDOUS REACTIONS: None Known

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Acetone (67-64-1) LD₅₀ (Oral, Rat) 5800 mg/kg; LD₅₀ (Oral, Mouse) 3000 mg/kg; LD₅₀ (Oral, Rabbit) 5340 mg/kg; LC₅₀ (Inhalation, Rat, 8hr) 50100 mg/m³; LC₅₀ (Inhalation, Mouse, 4hr) 44,000 mg/m³ **Isopropyl Alcohol** (67-63-0) LD₅₀ (Oral,Rat) 5045 mg/kg; LD₅₀ (Oral, Rabbit) 5045 mg/kg; LD₅₀ (Dermal, Rabbit) 12,800 mg/kg; LC₅₀ (Inhalation, Rat, 8hr) 16,000 ppm
ROUTES OF ENTRY: Ingestion, Inhalation, Skin
EYES: Redness, irritation, causes temporary corneal opacity
INGESTION: May cause nausea, diarrhea, vomiting, depending on the amount ingested.
INHALATION: Causes dizziness, anesthesia, possibly death if breathed directly.
SKIN: Causes severe irritation, localized defatting.
MEDICAL CONDITION AGGRAVATED: None known
ACUTE HEALTH HAZARDS: Eyes: redness, tearing, blurred vision
Skin: defatting and dermatitis
CHRONIC HEALTH HAZARDS: May cause damage to the following organs: blood, kidneys, liver, mucous membranes, bone marrow, central nervous system (CNS).
CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No OTHER: N/A

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: Acetone (67-64-1) LC₅₀ (Trout, 96hr) 5540 mg/L; LC₅₀ (Bluegill, 96hr) 8300 mg/L; LC₅₀ (Fathead Minnow, 96hr) 7500 mg/L **Isopropyl Alcohol** (67-63-0) LC₅₀ (Fathead Minnow, 96 hrs) 100,000 mg/L
BIODEGRADABILITY: This product is biodegradable.
BIOACCUMULATION: This product is not expected to bioaccumulate.
SOIL MOBILITY: This product is mobile in soil.
OTHER ECOLOGICAL HAZARDS: This material is toxic to aquatic life.

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations.
RCRA STATUS: Waste solvent likely considered U220 (Toluene), hazardous, under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

Safety Data Sheet

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950
PACKAGING GROUP: N/A

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950

SHIPPING BY WATER:

VESSEL (IMO/IMDG)
PROPER SHIPPING NAME: Aerosols, Ltd. Qty.
HAZARD CLASS/DIVISION: 2.1
UN/NA NUMBER: UN 1950
ENVIRONMENTAL HAZARDS WATER: Marine Pollutant

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): None

SARA 311/312 HAZARD CATEGORIES: Flammable.

SARA 313 REPORTABLE INGREDIENTS: Toluene (108-88-3)

CLEAN WATER ACT: None

STATE REGULATIONS: **Acetone** (67-64-1) Connecticut hazardous material survey, Illinois toxic substances disclosure to employee act, Illinois chemical safety act, New York release reporting list, **RTK** - RI, PA, FL, MN, MA, NJ; Massachusetts spill list, New Jersey spill list, Louisiana spill reporting, California List of Hazardous Substances (8 CCR 339): Acetone TSCA 8(b) inventory: Acetone TSCA 4(a) final test rules: Acetone TSCA 8(a) IUR: Acetone

INTERNATIONAL REGULATIONS: **Acetone** (67-64-1) Australia, China, Europe (EINECS), Japan, Korea, United Kingdom, Canada, WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC). p. 6; DSCL (EEC): R11- Highly flammable. R36- Irritating to eyes. S9- Keep container in a well-ventilated place. S16- Keep away from ignition sources. S26- In case of eye contact, rinse immediately with plenty of water and seek medical advice.

NFPA HEALTH: 2
NFPA FLAMMABILITY: 3
NFPA REACTIVITY: 0
NFPA OTHER: None

HMIS HEALTH: 2
HMIS FLAMMABILITY: 3
HMIS REACTIVITY: 0
HMIS PROTECTION: B

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Jonathon Jarvis

DATE PREPARED: 12/30/2013

REVISION DATE: 11/18/2014

N/A = Not Applicable; N/D = Not Determined

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Safety Data Sheet

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