

SOCAR CHEMICAL COMPANY INC
2609 RUTHERFORD RD
GREENVILLE SC 29609
864-244-5068

SAFETY DATA SHEET: **BIO-SAFE SOLVENT**
ISSUE DATE: 1-2-15

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: BIO-SAFE SOLVENT
CHEMICAL FAMILY NAME: PETROLEUM SOLVENT WITH EMULSIFIERS
PRODUCT USE: REMOVES HEAVY GREASE AND OIL

SUPPLIER/MANUFACTURER'S NAME: SOCAR CHEMICAL COMPANY INC.
ADDRESS: 2609 RUTHERFORD RD, GREENVILLE SC 29609 USA
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SECTION 2: HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: THIS IS AN AMBER LIQUID WITH AN ORANGE ODOR. NO EXPECTED HEALTH HAZARDS.
IMMEDIATE HEALTH, PHYSICAL AND ENVIRONMENTAL HAZARDS: NO HEALTH PROBLEMS AT ALL.

OSHA HAZARD CLASSIFICATION
NONE

PRECAUTIONARY STATEMENTS:
CAUTION! COMBUSTIBLE LIQUID AND VAPOR. MAY CAUSE SKIN IRRITATION. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM HEAT AND FLAME.
KEEP CONTAINER TIGHTLY CLOSED
WEAR PROTECTIVE GLOVES AND EYE/FACE PROTECTION
STORE IN COOL/WELL VENTILATED PLACE

THIS MIXTURE IS NOT CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT BY WEIGHT
DISTILLATES, PETROLEUM, HYDROTREATED LIGHT	64742-47-8	100%

SECTION 4: FIRST AID MEASURES

IF INHALED: IMMEDIATELY MOVE VICTIM TO FRESH AIR. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN RESCUE BREATHING. IF HEART HAS STOPPED, IMMEDIATELY BEGIN CARDIOPULMONARY RESUSCITATION. SEEK IMMEDIATE MEDICAL ATTENTION.

IF ON SKIN: REMOVE CONTAMINATED SHOES AND CLOTHING, RINSE SKIN WITH WATER AND SOAP.

IF IN EYES: CHECK FOR AND REMOVE CONTACT LENSES. IF IRRITATION OR REDNESS DEVELOPS FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES.

IF INGESTED: IF VICTIM IS CONSCIOUS, GIVE 2 OR 3 GLASSES OF WATER OR MILK TO DRINK TO DILUTE THE MATERIAL. GET MEDICAL ATTENTION.

MOST IMPORTANT SYMPTOMS AND EFFECTS: HEADACHE, DROWSINESS, DIZZINESS, LOSS OF COORDINATION, DISORIENTATION AND FATIGUE. **DELAYED:** DRY SKIN AND POSSIBLE IRRITATION WITH REPEATED OR PROLONGED EXPOSURE.

SECTION 5: FIRE FIGHTING MEASURES

FLAMMABILITY: FLAMMABLE

FLASH POINT: AVERAGE 63°C 145°F ASTM D 56

SUITABLE EXTINGUISHING MEDIA: USE DRY CHEMICAL, CO₂, OR FOAM IS RECOMMENDED. WATER SPRAY IS RECOMMENDED TO COOL OR PROTECT EXPOSED MATERIALS OR STRUCTURES. PRODUCT WILL FLOAT AND CAN BE RE-IGNITED ON THE SURFACE OF THE WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILD UP WHICH COULD RESULT IN CONTAINER RUPTURE.

HAZARDOUS COMBUSTION PRODUCTS: COMBUSTION MAY YIELD SMOKE, CARBON MONOXIDE, AND OTHER PRODUCTS OF INCOMPLETE COMBUSTION.

SPECIAL PROTECTIVE ACTIONS FOR FIREFIGHTERS: FOR FIRES BEYOND THE INITIAL STAGE, EMERGENCY RESPONDERS IN THE IMMEDIATE HAZARD AREA SHOULD WEAR PROTECTIVE CLOTHING. WHEN THE POTENTIAL CHEMICAL HAZARD IS UNKNOWN, IN ENCLOSED OR CONFINED SPACES, A SELF CONTAINED BREATHING APPARATUS SHOULD BE WORN. IN ADDITION, WEAR OTHER APPROPRIATE PROTECTIVE EQUIPMENT AS CONDITIONS WARRANT (SEE SECTION 8).

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: HIGHLY FLAMMABLE. SPILLAGES OF LIQUID PRODUCT WILL CREATE A FIRE HAZARD AND MAY FORM AN EXPLOSIVE ATMOSPHERE. KEEP ALL SOURCES OF IGNITION AND HOT METAL SURFACES AWAY FROM SPILL/RELEASE IF SAFE TO DO SO. THE USE OF EXPLOSION-PROOF ELECTRICAL EQUIPMENT IS RECOMMENDED. STAY UPWIND AND AWAY FROM SPILL/RELEASE. AVOID DIRECT CONTACT WITH MATERIAL. FOR LARGE SPILLAGES, NOTIFY PERSONS DOWN WIND OF THE SPILL/RELEASE ISOLATE IMMEDIATE HAZARD AREA AND KEEP UNAUTHORIZED PERSONNEL OUT. WEAR APPROPRIATE PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION, AS CONDITIONS WARRANT (SEE SECTION 8).

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ENVIRONMENTAL PRECAUTIONS: STOP SPILL/RELEASE IF IT CAN BE DONE SAFELY. PREVENT SPILLED MATERIAL FROM ENTERING DRAINS, SEWERS OR WATERWAYS. USE FOAM ON SPILLS TO MINIMIZE VAPORS. USE WATER SPARINGLY TO MINIMIZE ENVIRONMENTAL CONTAMINATION AND REDUCE DISPOSAL REQUIREMENTS. IF SPILL OCCURS ON WATER NOTIFY APPROPRIATE AUTHORITIES AND ADVISE SHIPPING OF ANY HAZARD.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP: NOTIFY RELEVANT AUTHORITIES IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS. IMMEDIATE CLEANUP OF ANY SPILL IS RECOMMENDED. DIKE FAR AHEAD OF SPILL FOR LATER RECOVERY OR DISPOSAL. ABSORB SPILL WITH INERT MATERIAL SUCH AS SAND OR VERMICULITE, AND PLACE IN SUITABLE CONTAINER FOR DISPOSAL. IF SPILLED ON WATER REMOVE WITH APPROPRIATE METHODS (E.G. SKIMMING, BOOMS, OR ABSORBENTS). IN CASE OF SOIL CONTAMINATION, REMOVE CONTAMINATED SOIL FOR REMEDIATION OR DISPOSAL IN ACCORDANCE WITH LOCAL REGULATIONS. RECOMMENDED MEASURES ARE BASED ON THE MOST LIKELY SPILLAGE SCENARIOS FOR THIS MATERIAL; HOWEVER LOCAL CONDITIONS AND REGULATIONS MAY INFLUENCE OR LIMIT THE CHOICE OF APPROPRIATE ACTIONS TO BE TAKEN.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: ENSURE ALL EQUIPMENT IS ELECTRICALLY GROUNDED BEFORE BEGINNING TRANSFER OPERATIONS.

CONDITIONS FOR SAFE STORAGE: KEEP CONTAINER TIGHTLY CLOSED AND PROPERLY LABELED. USE AND STORE THIS MATERIAL IN COOL DRY WELL VENTILATED AREAS AWAY FROM HEAT, DIRECT SUNLIGHT, HOT METAL SURFACES, AND ALL SOURCES OF IGNITION. STORE ONLY IN APPROVED CONTAINERS. POST AREA "NO SMOKING OR OPEN FLAME." KEEP AWAY FROM ANY INCOMPATIBLE MATERIALS (SEE SECTION 10) PROTECT CONTAINERS AGAINST PHYSICAL DAMAGE. OUTDOOR OR DETACHED STORAGE IS PREFERRED. INDOOR STORAGE SHOULD MEET OSHA STANDARDS AND APPROPRIATE FIRE CODES.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	ACGIH	OSHA	OTHER
LPA 142	100ppm	100ppm	

NOTE: STATE, LOCAL, OR OTHER AGENCIES OR ADVISORY GROUPS MAY HAVE ESTABLISHED MORE STRINGENT LIMITS. CONSULT AN INDUSTRIAL HYGIENIST OR SIMILAR PROFESSIONAL OR YOUR LOCAL AGENCIES FOR FURTHER INFORMATION.

ENGINEERING CONTROLS: IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS ADDITIONAL ENGINEERING CONTROLS MAY BE REQUIRED.

EYE CONTACT: THE USE OF EYE PROTECTION THAT MEETS OR EXCEEDS ANSI Z 87.1 IS RECOMMENDED TO PROTECT AGAINST POTENTIAL EYE CONTACT, IRRITATION, OR INJURY. DEPENDING ON CONDITIONS OF USE, A FACE SHIELD MAY BE NECESSARY.

RESPIRATORY: WHERE THERE IS POTENTIAL FOR AIRBORNE EXPOSURE ABOVE THE EXPOSURE LIMIT A NIOSH CERTIFIED AIR PURIFYING RESPIRATOR EQUIPPED WITH ORGANIC VAPOR CARTRIDGES/CANISTERS MAY BE USED.

SKIN PROTECTION: THE USE OF GLOVES IMPERVIOUS TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT.

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OTHER PROTECTIVE EQUIPMENT: EYE WASH AND QUICK DRENCH SHOWER FACILITIES SHOULD BE AVAILABLE IN THE IN THE WORK AREA. THOROUGHLY CLEAN SHOES AND WASH CONTAMINATED CLOTHING BEFORE REUSE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: AMBER LIQUID
ODOR: MILD
ODOR THRESHOLD (PPM): NO DATA
PH: NOT APPLICABLE
FREEZING POINT: NOT APPLICABLE
BOILING POINT: 349 DEG F
FLASHPOINT: 145°F
EVAPORATION RATE: 0.15 (100% EVAPORATION WITH NO RESIDUE)
FLAMMABILITY: NOT APPLICABLE
EXPLOSIVE LIMITS (mmHg): NOT APPPLICABLE
VAPOR PRESSURE: 0.32 mmHG @ 20°C API CALCULATION
RELATIVE DENSITY: 5.4
SOLUBILITY: NEGLIGIBLE
PARTITION COEFFICIENT: N-OCTANOL/WATER:
AUTO-IGNITION TEMPERATURE: 453 DEG F
DECOMPOSITION TEMPERATURE: NO DATA
VISCOSITY: 2.1 Cst @20°C
SPECIFIC GRAVITY (WATER=1): 0.677 @60 DEG F

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE UNDER NORMAL AMBIENT AND ANTICIPATED CONDITIONS OF USE.
REACTIVITY: NON-REACTIVE.
CONDITIONS TO AVOID: AVOID HIGH TEMPERATURES AND ALL SOURCES OF IGNITION. PREVENT VAPOR ACCUMLATION.
INCOMPATIBLE MATERIALS: AVOID CONTACT WITH STRONG OXIDIZING AGENTS AND STRONG REDUCING AGENTS.
HAZARDOUS DECOMPOSTION PRODUCTS: NOT ANTICIPATED UNDER NORMAL CONDITIONS OF USE.
POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	HAZARD	ADDITIONAL INFO	LC50/LD50 DATA
INHALATION	Acute 4 hours (rat) >2mg/l Acute LC50 (rat) >4.3 mg/l	All rats survived at indicated concentration	
SKIN	Primary irritation (rabbit): 1.2 (Maxium score is 8.0) Acute dermal LD50 (rabbit): 2,000-4,000 mg/kg	LPA Solvent	
EYES	Primary irritation (rabbit): 1 hours 3.0 (Maximum score is 110.)		
INGESTION	Acute oral LD50 (rat): >5,000 mg/kg		
CARCINOGENICITY:	Contains no ingredient listed as a carcinogen		

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SECTION 12: ECOLOGICAL INFORMATION

AQUATIC TOXICITY: NOT TOXIC TO AQUATIC ORGANISMS (FISH, DAPHNIA, ALGAE) UP TO WATER SOLUBILITY. MAY ABSORB TO SEDIMENTS AND POSSIBLY CAUSE TOXIC EFFECTS TO ORGANISMS.

BIODEGRADATION: SLIGHTLY BIODEGRADABLE IN WATER-BASED TESTS DUE TO LOW WATER SOLUBILITY.

SECTION 13: DISPOSAL CONSIDERATIONS

THE GENERATOR OF A WASTE IS ALWAYS RESPONSIBLE FOR MAKING PROPER HAZARDOUS WASTE DETERMINATIONS AND NEED TO CONSIDER STATE AND LOCAL REQUIREMENTS IN ADDITION TO FEDERAL REGULATIONS.

THIS MATERIAL IF DISCARDED AS PRODUCED WOULD NOT BE A FEDERALLY REGULATED RCRA "LISTED" HAZARDOUS WASTE. HOWEVER, IT WOULD LIKELY BE IDENTIFIED AS A FEDERALLY REGULATED RCRA HAZARDOUS WASTE FOR THE FOLLOWING CHARACTERISTICS SHOWN BELOW. SEE SECTION 7 AND 8 FOR INFORMATION ON HANDLING STORAGE AND PERSONAL PROTECTION AND SECTION 9 FOR PHYSICAL/CHEMICAL PROPERTIES. IT IS POSSIBLE THAT THE MATERIAL AS PRODUCED CONTAINS CONSTITUENTS WHICH ARE NOT REQUIRED TO BE LISTED IN THE MSDS BUT COULD AFFECT THE HAZARDOUS WASTE DETERMINATION. ADDITIONALLY USE WHICH RESULTS IN CHEMICAL OR PHYSICAL CHANGE OF THIS MATERIAL COULD SUBJECT IT TO REGULATION AS A HAZARDOUS WASTE.

CONTAINER CONTENTS SHOULD BE COMPLETELY USED AND CONTAINERS SHOULD BE EMPTIED PRIOR TO DISCARD. CONTAINER RESIDUES AND RE-INSTATES COULD BE CONSIDERED TO BE HAZARDOUS.

SECTION 14: TRANSPORT INFORMATION

US (DOT): NOT REGULATED. NOT CLASSIFIED AS SUPPORTING COMBUSTION ACCORDING TO THE TRANSPORT REGULATIONS.

SECTION 15: REGULATORY INFORMATION

CERCLA/SARA – SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES AND TPQS (IN POUNDS):

THIS MATERIAL DOES NOT CONTAIN ANY CHEMICALS TO THE REPORTING REQUIREMENTS OF SARA 302 AND 40 CFR 372.

CERCLA/SARA SECTION 313 AND 40 CFR 372:

THIS MATERIAL CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III AND 40 CFR 372:

INTERNATIONAL HAZARD CLASSIFICATION:

CANADIAN DOMESTIC SUBSTANCE LIST (DSL) INVENTORY LISTING: LISTED

CANADIAN NON-DOMESTIC SUBSTANCE LISTING (NDSL): LISTED

WHMIS HAZARD CLASS: CLASS B, DIVISION 3, COMBUSTIBLE LIQUID

EUROPEAN UNION: Xn: HARMFUL, R65 HARMFUL: MAY CAUSE LUNG DAMAGE IS SWALLOWED, R66 REPEATED EXPOSURE MAY CAUSE SKIN DRYNESS OR CRACKING

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) LISTING: LISTED

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) INVENTORY LIST: LISTED

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EUROPEAN INVENTORY OF EXISTING COMMERCIAL CHEMICAL SUBSTANCES

(EINECS) LISTING: LISTED

PHILIPPINES INVENTORY LIST (PICCS): LISTED

KOREAN INVENTORY LIST: LISTED

CHINA INVENTORY LIST: LISTED

STATE REGULATIONS:

CALIFORNIA PROP 65: NONE

SECTION 16: OTHER INFORMATION

HMIS RATING: HEALTH: 1

FLAMMABILITY: 2

REACTIVITY: 0

PERSONAL PROTECTION: X

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DATE OF LAST REVISION: JANUARY 2015

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