

SOCAR CHEMICAL COMPANY INC

2609 RUTHERFORD RD

GREENVILLE SC 29609

864-244-5068

SAFETY DATA SHEET: **BIO-SAFE 1045**

ISSUE DATE: 4-24-15

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: BIO-SAFE 1045

CHEMICAL FAMILY NAME: DEGREASER

PRODUCT USE: DEGREASING CONCRETE AND EQUIPMENT

SUPPLIER/MANUFACTURER'S NAME: SOCAR CHEMICAL COMPANY INC.

ADDRESS: 2609 RUTHERFORD RD, GREENVILLE SC 29609 USA

EMERGENCY PHONE: CHEMTREC 1-800-424-9300 CCN695199

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MONDAY-FRIDAY, 7AM-4PM

WEBSITE: www.socarchemical.com

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

THIS IS A CLEAR LIQUID WITH A SLIGHT ETHERAL ODOR.

IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS:

MAY CAUSE CHEMICAL EYE BURNS. MAY CAUSE CHEMICAL SKIN BURNS. MAY CAUSE CHEMICAL GASTROINTESTINAL BURNS. MAY CAUSE TARGET ORGAN EFFECTS.

OSHA HAZARD CLASSIFICATION(S):

METAL CORROSIVE

EYE DAMAGE

SKIN CORROSION

ORAL

CATEGORY 1

CATEGORY 1

CATEGORY 1A

CATEGORY 4

SIGNAL WORD: WARNING



HAZARD STATEMENT(S):

H290-MAY BE CORROSIVE TO METALS

H314-CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

H318-CAUSES SERIOUS EYE DAMAGE

H-302-HARMFUL IF SWALLOWED

H402-HARMFUL TO AQUATIC LIFE

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PRECAUTIONARY STATEMENT(S): PREVENTION

P260-DO NOT BREATHE MIST OR VAPOR

P264-WASH HANDS THOROUGHLY AFTER HANDLING

P270-DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT

P280- WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION.

P273-AVOID RELEASE TO THE ENVIRONMENT

PRECAUTIONARY STATEMENTS – RESPONSE

P301+P330+P312 IF SWALLOWED: RINSE MOUTH. CALL A POISON CENTER OR DOCTOR IF YOU FEEL UNWELL

P303+P361+P353-IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE WITH WATER/SHOWER

P305+P351+P338- IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING.

P310- IMMEDIATELY CALL A POISON CENTER OR DOCTOR

PRECAUTIONARY STATEMENTS – STORAGE

P403+P233-STORE IN WELL VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED

PRECAUTIONARY STATEMENTS – DISPOSAL

P501-DISPOSE OF CONTENTS/CONTAINER IN ACCORDANCE WITH LOCAL/REGIONAL/NATIONAL/INTERNATIONAL REGULATIONS

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: CORROSIVE EYE BURNS SIGNS MAY INCLUDE CLOUDY APPEARANCE OF THE CORNEA, CHEMICAL BURNS, SEVERE PAIN, TEARING, ULCERATIONS, SIGNIFICANTLY IMPAIRED VISION OR COMPLETE LOSS OF VISION.

SKIN CONTACT: CORROSIVE SIGNS MAY INCLUDE LOCALIZED REDNESS, SWELLING, ITCHING, INTENSE PAIN, BLISTERING, ULCERATION, AND TISSUE DESTRUCTION.

INHALATION: RESPIRATORY TRACT IRRITATION: SIGNS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN.

INGESTION: GASTROINTESTINAL CORROSION: SIGNS MAY INCLUDE SEVERE MOUTH, THROAT, AND ABDOMINAL PAIN, NAUSEA, VOMITING, AND DIAHRRHEA, BLOOD IN THE FECES AND/OR VOMITUS MAY ALSO BE SEEN.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT BY WEGHT
WATER	7732-18-5	>/=85
SODIUM HYDROXIDE	1310-73-2	>/=2
POTASSIUM HYDROXIDE	1310-58-3	>/=1
2-BUTOXYETHANOL	111-76-2	>/=5

SECTION 4: FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, GET MEDICAL ATTENTION

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SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY RINSE SKIN WITH WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING AND CLEAN SHOES BEFORE REUSE.

EYES CONTACT: FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.

INGESTION: DO NOT INDUCE VOMITING. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NOT APPLICABLE

RECOMMENDATIONS TO PHYSICIANS: NOT APPLICABLE

SYMPTOMS/EFFECTS: CAN CAUSE RASH ON SKIN

CHRONIC: NOT APPLICABLE

SECTION 5: FIRE FIGHTING MEASURES

FIRE EXTINGUISHING MATERIALS: USE DRY CHEMICAL, CO₂, WATER SPRAY OR "ALCOHOL" FOAM.

FLASH POINT: NO FLASH POINT SEEN AT OR BELOW 212 DEG. F (100 DEG. C),

AUTOIGNITION TEMPERATURE: NOT APPLICABLE

FLAMMABLE LIMITS: LOWER (LEL): NOT APPLICABLE UPPER (UEL): NOT APPLICABLE

UNUSUAL FIRE AND EXPLOSION HAZARDS: THIS PRODUCT IS NOT FLAMMABLE

EXPLOSION SENSITIVITY TO MECHANICAL IMPACT: NOT SENSITIVE

EXPLOSION SENSITIVITY TO STATIC DISCHARGE: NOT SENSITIVE

SPECIAL FIRE FIGHTING PROCEDURES: FIREFIGHTERS SHOULD WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL FIRE-FIGHTING TURNOUT GEAR.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: DEPENDING ON EXTENT OF RELEASE, CONSIDER THE NEED FOR FIRE FIGHTERS/EMERGENCY RESPONDERS WITH ADEQUATE PERSONAL PROTECTIVE EQUIPMENT FOR CLEANING.

DO NOT EAT, DRINK OR SMOKE WHILE CLEANING UP. USE SELF CONTAINED RESPIRATOR, A MASK WITH FILTER (TYPES A CLASS 3), OR A FILTERING MASK (e.g. EN 405). WEAR PROTECTIVE CLOTHING, SAFETY GLASSES AND IMPERVIOUS GLOVES (e.g. NEOPRENE GLOVES). ENSURE ADEQUATE VENTILATION. AVOID ALL SOURCES OF IGNITION, HOT SURFACES AND OPEN FLAMES.

SPILLS: PREVENT RUNOFF FROM ENTERING DRAINS, SEWERS OR WATERWAYS. DIKE OR SOAK-UP WITH INERT ABSORBENT MATERIAL.

METHOD FOR CLEAN UP: DILUTE WITH WATER AND RINSE INTO SANITARY SEWER SYSTEM OR DISPOSE INTO SUITABLE CONTAINER.

SECTION 7: HANDLING AND STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: AVOID CONTACT WITH EYES. AVOID PROLONGED REPEATED SKIN CONTACT AND BREATHING MIST/VAPORS. USE IN WELL VENTILATED AREA AWAY FROM ALL IGNITION SOURCES. SWITCH OFF ALL ELECTRICAL DEVICES SUCH AS PARABOLIC HEATERS, HOTPLATES, AND HEATERS ETC. IN GOOD TIME FOR THEM TO HAVE COOLED DOWN BEFORE COMMENCING WORK. DO NOT SMOKE; DO NOT WELD. DO NOT EMPTY WASTE INTO SANITARY DRAINS. TAKE MEASURES TO PREVENT THE BUILD UP OF ELECTROSTATIC CHARGE.

STORAGE AND HANDLING PRACTICES: ENSURE ADEQUATE VENTILATION. KEEP OUT OF REACH OF CHILDREN. AVOID SKIN CONTACT. AVOID EYE CONTACT. DO NOT EAT, DRINK,

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OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. KEEP AWAY FROM ALUMINUM AND ZINC. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN COOL DRY PLACE. STORE AWAY FROM ACIDS.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT/GUIDELINES

CHEMICAL NAME	CAS#	ACGIH TWA	OSHA TWA	SWA
WATER	7732-18-5	NOT LISTED	NOT LISTED	NOT LISTED
SODIUM HYDROXIDE	1310-73-2			
POTASSIUM HYDROXIDE	1310-58-3			
2-BUTOXYETHANOL	111-76-2			

CURRENTLY, INTERNATIONAL EXPOSURE LIMITS ARE NOT ESTABLISHED FOR THE COMPONENTS OF THIS PRODUCT. PLEASE CHECK WITH COMPETENT AUTHORITY IN EACH COUNTRY FOR THE MOST RECENT LIMITS IN PLACE.

VENTILATION AND ENGINEERING CONTROLS: USE WITH ADEQUATE VENTILATION TO ENSURE EXPOSURE LEVELS ARE MAINTAINED BELOW THE LIMITS PROVIDED BELOW. USE LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE DUST. ENSURE EYEWASH/SAFETY SHOWER STATIONS ARE AVAILABLE NEAR AREAS WHERE PRODUCTS ARE USED.

THE FOLLOWING INFORMATION ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT IS PROVIDED TO ASSIST EMPLOYERS IN COMPLYING WITH OSHA REGULATIONS FOUND IN 29 CFR SUBPART 1 (BEGINNING AT 1910.132) OR EQUIVALENT STANDARD OF CANADA OR STANDARDS OF EU MEMBER STATES (INCLUDING EN149 FOR RESPIRATORY PPE, AND EN 166 FOR FACE/EYE PROTECTION), AND THOSE OF JAPAN. PLEASE REFERENCE APPLICABLE REGULATIONS AND STANDARDS FOR RELEVANT DETAILS.

RESPIRATORY PROTECTION: MAINTAIN AIRBORNE CONTAMINANT CONCENTRATIONS BELOW GUIDELINES LISTED ABOVE, IF APPLICABLE. IF NECESSARY USE ONLY RESPIRATORY PROTECTION AUTHORIZED IN THE U.S. FEDERAL OSHA RESPIRATORY PROTECTION STANDARD (29CFR 1910.134) EQUIVALENT U.S. STATE STANDARDS, CANADIAN CSA STANDARD Z94.4-93, THE EUROPEAN STANDARD EN149, OR EU MEMBER STATES.

EYE PROTECTION: SAFETY GLASSES. IF NECESSARY REFER TO THE U.S. OSHA 29CFR 1910.133 OR APPROPRIATE CANADIAN STANDARDS.

HAND PROTECTION: USE CHEMICAL RESISTANT GLOVES TO PREVENT SKIN CONTACT. IF NECESSARY REFER TO U.S. OSHA 29 CFR 1910.138 OR APPROPRIATE STANDARDS OF CANADA.

BODY PROTECTION: USE BODY PROTECTION APPROPRIATE TO PREVENT CONTACT (e.g. LAB COAT, OVERALLS). IF NECESSARY REFER TO APPROPRIATE STANDARDS OF CANADA, OR APPROPRIATE STANDARDS OF THE EU AUSTRALIAN STANDARDS OR RELEVANT JAPANESE STANDARDS.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR COLORLESS LIQUID

ODOR: SLIGHT

ODOR THRESHOLD (PPM): MILD

PH: 13.3

FREEZING POINT: 32°F

BOILING POINT: 220°F

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FLASH POINT: NOT APPLICABLE
EVAPORATION RATE: 0.1
FLAMMABILITY: NOT APPLICABLE
EXPLOSIVE LIMITS (mmHg): NOT APPLICABLE
VAPOR DENSITY (AIR=1): 0.9mmHg
RELATIVE DENSITY: NOT AVAILABLE
SOLUBILITY: 100%
PARTITION COEFFICIENT: N-OCTANOL/WATER: NOT AVAILABLE
AUTO-IGNITION TEMPERATURE: NOT AVAILABLE
DECOMPOSITION TEMPERATURE: NOT AVAILABLE
VISCOSITY: <100 CENTIPOISE

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: NOT AVAILABLE
STABILITY: STABLE
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: STRONG ACIDS; ALUMINUM; ZINC
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: STRONG ACIDS AND ALUMINUM
DECOMPOSITION PRODUCTS:

SUBSTANCE	CONDITION
CARBON MONOXIDE	NOT SPECIFIED
CARBON DIOXIDE	NOT SPECIFIED

SECTION 11: TOXICOLOGICAL INFORMATION

IRRITANCY OF PRODUCT: CONTACT WITH THIS PRODUCT CAN BE IRRITATING TO EXPOSED SKIN, EYES, AND RESPIRATORY SYSTEM.
SENSITIZATION OF PRODUCT: THIS PRODUCT IS NOT CONSIDERED A SENSITIZER.
REPRODUCTIVE TOXICITY INFORMATION: NOT AVAILABLE
TOXICITY DATA: NOT AVAILABLE
SUSPECTED CANCER AGENT: NONE OF THE INGREDIENTS ARE FOUND ON THE FOLLOWING LISTS: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC AND THEREFORE IS NOT CONSIDERED TO BE, NOR SUSPECTED TO BE A CANCER-CAUSING AGENT BY THESE AGENCIES.

SECTION 12: ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.
EFFECTS OF CHEMICAL ON AQUATIC LIFE: NO EVIDENCE IS CURRENTLY AVAILABLE ON THIS PRODUCTS EFFECTS ON AQUATIC LIFE.
DEGRADATION & PERSISTENCE: READILY BIO-DEGRADABLE PER OECD 301D, CLOSED BOTTLE TEST
BIOACCUMLULATION POTENTIAL: NOT APPLICABLE.
MOVEMENT IN SOIL: ACCIDENTAL SPILLAGE MAY LEAD TO PENETRATION IN THE SOIL AND GROUNDWATER. HOWEVER THERE IS NO EVIDENCE THAT THIS WOULD CASE ADVBERSE ECOLOGICAL EFFECTS.
EFFECT OF MATERIAL ON PLANTS OR ANIMALS: NO EVIDENCE IS CURRENTLY AVAILABLE ON THIS PRODUCT'S EFFECTS ON PLANTS OR ANIMALS.

SECTION 13: DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: UNUSED PRODUCT *DILUTE WITH WATER AND DISPOSE BY SANITARY SEWER. USED PRODUCT: USED PRODUCT MAY BE HAZARDOUS DEPENDING ON THE CLEANING APPLICATION AND RESULTING CONTAMINANTS.

EMPTY CONTAINERS: TRIPLE-RINSE WITH WATER AND OFFER FOR RECYCLING IF AVAILABLE IN YOUR AREA.

WASTE DISPOSAL MUST BE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL REGULATIONS, THOSE OF CANADA, AUSTRALIA, EU MEMBER STATES AND JAPAN.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER: NA1760

PROPER SHIPPING NAME: COMPOUNDS CLEANING LIQUID (CONTAINS SODIUM HYDROXIDE)

HAZARD CLASS NUMBER AND DESCRIPTION: 8

PACKING GROUP: II

DOT LABELS REQUIRED: CORROSIVE

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004)

MARINE POLLUTANT: NOT AVAILABLE

SECTION 15: REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: THIS PRODUCT IS NOT SUBJECT TO THE REPORTING REQUIREMENTS OF SECTIONS 302, 304 AND 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT, AS FOLLOWS: NONE

TSCA: ALL COMPONENTS IN THIS PRODUCT ARE LISTED ON THE US TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY OF CHEMICALS.

ACUTE HEALTH: YES

CHRONIC HEALTH: NO

FIRE: NO

REACTIVITY: NO

US SARA THRESHOLD PLANNING QUANTITY: THERE ARE NO SPECIFIC THRESHOLD PLANNING QUANTITIES FOR THIS PRODUCT. THE DEFAULT FEDERAL MSDS SUBMISSION AND INVENTORY REQUIREMENT FILING THRESHOLD OF 10,000 LB (4540 kg) MAY APPLY, PER 40 CFR 370.20

US CERCLA REPORTABLE QUANTITY (RQ): NONE

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): NONE OF THE INGREDIENTS ARE ON THE CALIFORNIA PROPOSITION 65 LISTS

CANADIAN REGULATIONS:

CANADIAN DSL/NDSL INVENTORY STATUS: ALL OF COMPONENTS OF THIS PRODUCT ARE ON THE DSL INVENTORY.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: NO COMPONENT OF THIS PRODUCT IS ON THE CEPA FIRST PRIORITIES SUBSTANCES LISTS.

CANADIAN WHMIS CLASSIFICATION AND SYMBOLS: THIS PRODUCT IS CATERGORIZED AS CONTROLLED PRODUCT, HAZARD CLASS E AS PER THE CONTROLLED PRODUCT REGULATIONS.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

CLASSIFICATION OF THE MIXTURE ACCORDING TO REGULATION (EC) NO1272/2008. SEE SECTION 2 FOR DETAILS.

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AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: ALL COMPONENTS OF THIS PRODUCT ARE LISTED ON THE AICS.

STANDARD FOR THE UNIFORM SCHEDULING OR DRUGS AND POISONS: NOT APPLICABLE

JAPANESE INFORMATION FOR PRODUCT

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: THE COMPONENTS OF THIS PRODUCT ARE NOT LISTED AS CLASS I SPECIFIED CHEMICAL SUBSTANCES, CLASS II SPECIFIED CHEMICAL SUBSTANCES, OR DESIGNATED CHEMICAL SUBSTANCES BY THE JAPANESE MITI.

SECTION 16: OTHER INFORMATION:

HMIS RATING: HEALTH: 1

FLAMMABILITY: 0

REACTIVITY: 1

PERSONAL PROTECTION: X

PREPARED BY: DAWN STYLES, SOCAR CHEMICAL

DATE OF LAST REVISION: APRIL 2015

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