

SOCAR CHEMICAL COMPANY INC

2609 RUTHERFORD RD

GREENVILLE SC 29609

864-244-5068

SAFETY DATA SHEET: **BIO-SAFE 1200C**

ISSUE DATE: 5-15-15

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: BIO-SAFE 1200C

CHEMICAL FAMILY NAME: ACIDIC COMPOUND

PRODUCT USE: ULTRA SONIC CLEANER

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

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SECTION 2: HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW: THIS IS A CLEAR LIQUID WITH A SLIGHT ODOR. EXPOSURE CAN BE IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.

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):

NONE

SIGNAL WORD: NONE

PRECAUTIONARY STATEMENT(S):

KEEP CONTAINER TIGHTLY CLOSED

WEAR PROTECTIVE GLOVES AND EYE/FACE PROTECTION

STORE IN COOL/WELL VENTILATED PLACE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT
WATER	7732-18-5	>/=88
CITRIC ACID	77-92-9	>/=25-40

SECTION 4: FIRST AID MEASURES

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

SKIN CONTACT: REMOVE CONTAMINATED CLOTHING AND SHOES. IMMEDIATELY FLUSH 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: ACUTE AND CHRONIC RESPIRATORY DISEASES.

RECOMMENDATIONS TO PHYSICIANS: FOR BURNS OF LARGE SKIN AREAS, (GREATER THAN 25 SQUARE INCHES), FOR INGESTION AND FOR SIGNIFICANT INHALATION EXPOSURE, SEVERE SYSTEMIC EFFECTS MAY OCCUR. MONITOR AND CORRECT FOR HYPOCALCEMIA, CARDIAC ARRHYTHMIAS, HYPOMAGNESEMIA, AND HYPERKALEMIA. IN SOME CASES RENAL DIALYSIS MAY BE INDICATED. *FOR CERTAIN BURNS ESPECIALLY OF THE DIGITS, USE OF INTRA-ARTERIAL CALCIUM GLUCONATE MAY BE INDICATED. FOR INHALATION EXPOSURES TREAT AS CHEMICAL PNEUMONIA.

SECTION 5: FIRE FIGHTING MEASURES

FIRE EXTINGUISHING MATERIALS: USE WATER, DRY CHEMICAL, CO₂, WATER SPRAY OR "ALCOHOL" FOAM. DO NOT USE SOLID STREAM OF WATER NEAR RUPTURED TANKS OF SPILLS. ACID REACTS WITH WATER AND CAN SPLATTER ACID ONTO PERSONNEL. CARE SHOULD BE EXERCISED WHEN WATER IS USED TO DILUTE ACID.

FLASH POINT: NOT AVAILABLE

AUTOIGNITION TEMPERATURE: 345 C/653 F

FLAMMABLE LIMITS: LOWER (LEL): 8% AT 65 DEG C/149 F UPPER (UEL): NOT AVAILABLE

UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE

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 APPROVED BY NIOSH 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 (TYPE 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.

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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, STORAGE 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, 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: NO SPECIAL PRECAUTIONS REQUIRED

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 THE PRODUCT IS 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: EFFECTIVE DUST MASK

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 LIQUID

ODOR: NONE

ODOR THRESHOLD (PPM): NONE

PH: 1.80

FREEZING POINT: NOT APPLICABLE

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BOILING POINT: NOT APPLICABLE
FLASH POINT: NOT AVAILABLE
EVAPORATION RATE: <1
FLAMMABILITY: NOT APPLICABLE
EXPLOSIVE LIMITS (mmHg): NOT APPLICABLE
VAPOR DENSITY (AIR=1): NOT APPLICABLE
RELATIVE DENSITY: 1.665 g/cm³
SOLUBILITY: 100%
PARTITION COEFFICIENT: N-OCTANOL/WATER: NOT AVAILABLE
AUTO-IGNITION TEMPERATURE: 345 C/ 653 F
DECOMPOSITION TEMPERATURE: >170 C/ >338 F
VISCOSITY: <100 CENTIPOISE

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: NOT AVAILABLE
STABILITY: STABLE AT NORMAL CONDITIONS
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NOT AVAILABLE
MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: STRONG BASES AND OXIDIZING AGENTS
DECOMPOSITION PRODUCTS: NO DECOMPOSITION IF STORED NORMALLY. THERMAL DECOMPOSITION CAN LEAD TO RELEASE OF IRRITATING GASES AND VAPORS.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY: LD50/p.o./RAT= 11.700mg/kg (1), LD50/i.p./RAT=833mg/kg (2), LD50/p.o./MOUSE=5.040mg/kg (1), LD50 I>v>/MOUSE=42mg/kg (17), LD50/i.p./MOUSE=961mg/kg (2).
IRRITANCY OF PRODUCT: CAN BE IRRITATING TO EYES, AND MAY CAUSE SKIN IRRITATION AND RESPIRATORY TRACT IRRITATION.
SENSITIZATION OF PRODUCT: THIS PRODUCT IS NOT CONSIDERED A SENSITIZER.
REPRODUCTIVE TOXICITY INFORMATION: NOT AVAILABLE
TOXICITY DATA: THIS PRODUCT DOES NOT CONTAIN ANY SUBSTANCES THAT ARE CONSIDERED BY ACGIH, OSHA OR NTP TO BE PROBABLE OR SUSPECTED HUMAN CARCINOGENS

SECTION 12: ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.
EFFECTS OF CHEMICAL ON AQUATIC LIFE: DIN 38412 PART15 (DIN EN ISO 7346)
TOXICITY TO FISH: 440-706 mg 02/L, DIN 38423 PART 5
TOXICITY TO BACTERIA: >10.000 mg/L
DEGRADATION & PERSISTENCE: NOT AVAILABLE
BIOACCUMLULATION POTENTIAL: NONE
MOVEMENT IN SOIL: NOT AVAILABLE
EFFECT OF MATERIAL ON PLANTS OR ANIMALS: NOT AVAILABLE

SECTION 13: DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: WASTE FROM RESIDUE/UNUSED PRODUCTS: WHERE POSSIBLE RECYCLING IS PREFERRED TO DISPOSAL OR INCINERATION. CAN BE

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DISPOSED IN LANDFILL OR INCINERATED WHEN IN COMPLIANCE WITH LOCAL REGULATIONS.

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

CONTAMINATED PACKAGING: EMPTY CONTAINERS SHOULD BE TAKEN FOR LOCAL RECYCLING RECOVERY OR WAST DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

NOT CLASSIFIED AS DANGEROUS ACCORDING TO TDG (TRANSPORTATION OF DANGEROUS GOODS) AND DOT (DEPARTMENT OF TRANSPORTATION)

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

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/NDL 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 CNTROLLED PRODUCT REGULATIONS.

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

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

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

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SUBSTANCES, CLASS II SPECIFIED CHEMICAL SUBSTANCES, OR DESIGNATED CHEMICAL SUBSTANCES BY THE JAPANESE MITI.

SECTION 16: OTHER INFORMATION:

HAZARD RATING

HEALTH: 2

FIRE: 0

REACTIVITY: 0

PREPARED BY: DAWN STYLES, SOCAR CHEMICAL

DATE OF LAST REVISION: MAY 2015

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