

# **SOCAR CHEMICAL COMPANY INC**

**2609 RUTHERFORD RD**

**GREENVILLE SC 29609**

**864-244-5068**

SAFETY DATA SHEET: **BRAKE WASH**

ISSUE DATE: 10-11-13

## **SECTION 1: PRODUCT & COMPANY IDENTIFICATION**

**PRODUCT NAME:** BRAKE WASH SOLVENT

**CHEMICAL FAMILY NAME:** SOLVENT

**PRODUCT USE:** NON CHLORINATED BRAKE PARTS CLEANER

**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 A CLEAR LIQUID WITH A MILD HYDROCARBON ODOR.

EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING. CAUSES EYE AND SKIN IRRITATION. HARMFUL OR FATAL IF SWALLOWED. VAPOR HARMFUL.

### **NOTE:**

MSDS DATA PERTAINS TO THE PRODUCT AS DELIVERED IN THE ORIGINAL SHIPPING CONTAINERS. RISK OF ADVERSE EFFECTS ARE LESSENERED BY FOLLOWING ALL PRESCRIBED SAFETY PRECAUTIONS, INCLUDING THE USE OF PROPER PERSONAL PROTECTIVE EQUIPMENT.

### **IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS:**

MAY CAUSE SKIN AND EYE IRRITATION. HARMFUL IF SWALLOWED. FLAMMABLE. IRRITATION TO RESPIRATORY TRACK.

### **OSHA HAZARD CLASSIFICATION(S):**

FLAMMABLE LIQUID, CATEGORY

EYE IRRITATION, CATEGORY

**SIGNAL WORD:** DANGER!

**PRECAUTIONARY STATEMENT(S):**

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KEEP CONTAINER TIGHTLY CLOSED  
WEAR PROTECTIVE GLOVES AND EYE/FACE PROTECTION  
STORE IN COOL/WELL VENTILATED PLACE

### POTENTIAL HEALTH EFFECTS:

**EYE CONTACT:** CONTACT MAY CAUSE EYE IRRITATION. INFLAMMATION OF THE EYE IS CHARACTERIZED BY REDNESS, WATERING AND ITCHING.

**SKIN CONTACT:** DIRECT CONTACT MAY CAUSE IRRITATION AND REDNESS. SKIN INFLAMMATION IS CHARACTERIZED BY ITCHING, SCALING, OR REDDENING. DEFATTING PROPERTIES, MAY AGGRAVATE AN EXISTING DERMATITIS.

**INHALATION:** AVOID BREATHING VAPORS, SPRAY OR MISTS. OVER EXPOSURE BY INHALATION MAY CAUSE RESPIRATORY IRRITATION. CAN CAUSE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION. HIGH VAPOR CONCENTRATIONS CAN CAUSE HEADACHES, DIZZINESS, DROWSINESS AND NAUSEA AND MAY LEAD TO HYDROCARBON SOLVENTS.

**INGESTION:** HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. VOMITING INCREASES RISK OF CHEMICAL PNEUMONIA OR PULMONARY EDEMA CAUSED BY ASPIRATION OF HYDROCARBON SOLVENTS.

CHRONIC EFFECTS: OVEREXPOSURE OF THIS PRODUCT BY INHALATION OR ABSORPTION CAN PRODUCE CENTRAL NERVOUS SYSTEM DEPRESSION RESULTING IN HEADACHE, NAUSEA AND OR DIZZINESS. PROLONGED OR REPEATED CONTACT CAN DEFAT THE SKIN AND LEAD TO IRRITATION, CRACKING, AND OR DERMATITIS. CONTAINS MATERIAL WHICH MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: KIDNEYS, LUNGS, LIVER, HEART, BRAIN, CENTRAL NERVOUS SYSTEM (CNS).

CARCINOGENICITY INGREDIENTS: NOT LISTED AS CARCINOGEN BY OSHA, NTP, OR IARC.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT BY WEIGHT
HEXANE	64742-49-0	100

### SECTION 4: FIRST AID MEASURES

**INHALATION:** MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION.

**SKIN CONTACT:** IMMEDIATELY FLUSH SKIN WITH PLENTY OF COOL RUNNING WATER FOR AT LEAST 15 MINUTES. WASH WITH SOAP AND WATER. IF IRRITATION DEVELOPS OR PERSISTS, GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE REUSE.

**EYES CONTACT:** IMMEDIATELY FLUSH EYES WITH PLENTY OF COOL RUNNING WATER. REMOVE CONTACT LENSES IF APPLICABLE, AND CONTINUE FLUSHING FOR AT LEAST 15 MINUTES, HOLDING EYELIDS APART TO ENSURE THOROUGH RINSING OF THE ENTIRE EYE. SPEED IS ESSENTIAL TO MINIMIZE INJURY. CALL A PHYSICIAN.

**INGESTION:** DO NOT GIVE LIQUID IF VICTIM IS UNCONSCIOUS OR DROWSY. OTHERWISE GIVE 1 OR 2 GLASSES OF WATER. CALL DOCTOR, HOSPITAL EMERGENCY ROOM OR POISON CONTROL CENTER FOR INSTRUCTIONS TO INDUCE VOMITING. WHEN MEDICAL

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ADVICE IS NOT AVAILABLE, INDUCE VOMITING USING SYRUP OF IPECAC ACCORDING TO DIRECTION. IF IPECAC NOT AVAILABLE, INDUCE VOMITING WITH FINGER OR BACK OF SPOON BY TOUCHING THE BACK OF THE VICTIMS THROAT. GET MEDICAL ATTENTION. .

#### **SECTION 5: FIRE FIGHTING MEASURES**

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

**FLASH POINT:** <0 DEG F

**FLAMMABLE LIMITS: LOWER (LEL):**1.2% **UPPER (UEL):** 11.6%

**SPECIAL FIRE FIGHTING PROCEDURES:** USE DRY CHEMICAL OR CO2. FIRE FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT. COOL CONTAINERS WITH WATER JET IN ORDER TO PREVENT PRESSURE BUILD-UP, AUTO IGNITION OR EXPLOSION. DO NOT RELEASE RUNOFF FROM FIRE TO DRAINS OR WATERCOURSES.

**FIRE AND EXPLOSION HAZARDS:** FLAMMABLE LIQUID AND VAPOR. VAPOR MAY CAUSE FLASH FIRE. VAPORS MAY ACCUMULATE IN LOW OR CONFINED AREAS OR TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST, WITH THE RISK OF A SUBSEQUENT EXPLOSION.

**EXPLOSION SENSITIVITY TO MECHANICAL IMPACT:** NOT SENSITIVE

**EXPLOSION SENSITIVITY TO STATIC DISCHARGE:** NOT SENSITIVE

#### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

ELIMINATE ALL IGNITION SOURCES. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER SOLUBLE OR ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. USE SPARK PROOF TOOLS AND EXPLOSION PROOF EQUIPMENT. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTACTOR.

#### **SECTION 7: HANDLING AND STORAGE**

**WORK PRACTICES AND HYGIENE PRACTICES:** EXTREMELY FLAMMABLE LIQUID AND VAPOR. STORE AND USE AWAY FROM HEAT, SPARKS, OPEN FLAME OR ANY OTHER IGNITION SOURCE. PUT IN APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT. AVOID CONTACT WITH EYES, SKIN, AND CLOTHING. DO NOT BREATHE VAPOR OR MIST. USE ONLY WITH ADEQUATE VENTILATION. DO NOT INGEST. WASH THOROUGHLY AFTER HANDLING. DO NOT REUSE CONTAINER. OBSERVE LABEL PRECAUTIONS. WASH CONTAMINATED CLOTHING BEFORE REUSING.

**STORAGE AND HANDLING PRACTICES:** KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY TO USE. AVOID ALL POSSIBLE SOURCES OF IGNITION (SPARK OR FLAME) STORE AWAY FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS AND FOOD AND DRINK.

STORE BETWEEN THE FOLLOWING TEMPERATURES: 40 DEG F- 120 DEG F. KEEP OUT OF THE REACH OF CHILDREN.

#### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EXPOSURE LIMIT/GUIDELINES**

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CHEMICAL NAME	CAS#	ACGIH TWA	OSHA TWA
HEXANE	64742-49-0	50ppm 8 hour (skin)	500 ppm 8 hour (skin)

**RESPIRATORY:** USE WITH ADEQUATE VENTILATION. PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONROLS TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR RESPECTIVE OCCUPATIONAL EXPOSURE LIMITS. WEAR APPROPRIATE RESPRATOR WHEN VENTILATION IS INADEQUATE.

**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:** SLIGHT HYDROCARBON

**ODOR THRESHOLD (PPM):** MILD

**PH:** NOT APPLICABLE

**FREEZING POINT:** NOT APPLICABLE

**BOILING POINT:** 147 DEG F

**SPECIFIC GRAVITY:** 0.75

**EVAPORATION RATE:** NOT DETERMINED

**FLAMMABILITY:** FLAMMABLE

**EXPLOSIVE LIMITS (mmHg):** NOT APPLICABLE

**VAPOR DENSITY (AIR=1):** >1

**RELATIVE DENSITY:** NOT AVAILABLE

**SOLUBILITY:** INSOLUBLE IN WATER

**VAPOR PRESSURE:** 5.9 KPA (44 MMHg)

**VOC'S:** 748 (G/L) 100%

#### SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY:** OXIDIZING MATERIALS

**STABILITY:** STABLE

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

**CONDITIONS TO AVOID:** HEAT, SPARKS, FLAMES. NO SMOKING WHEN USING.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** KEEP AWAY FROM HEAT, SPARKS AND FLAMES. STRONG OXIDIZING AGENTS.

**DECOMPOSITION PRODUCTS:** CARBON OXIDES (CO, CO2)

#### 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

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FOR OTHER HEALTH RELATED INFORMATION REFER TO THE EMERGENCY OVERVIEW ON PAGE 1 AND THE HAZRDS IDENTIFICATION IN SECTION 3 OF THIS MSDS.

N-HEXANE: THIS MATERIAL CONTAINS N-HEAXANE LONG TERM OR REPEATED EXPOSURE TO N-HEXANE CAN CAUSE PERMANET PERIPHERAL NEWRVE DAMAGE. INITIAL SYMPTOMS ARE NUMBNESS OF FINGERS AND TOES. ALSO MOTR WEAKNESS CAN OCCURE IN THE DIGITS, BUT MAY ALSO INVOLVE MESCLES OF THE ARMS, THIGHS AND FOREARMS. THE ONSET OF THESE SYPTOMS MAY BE DELAYED FOR SEVERAL MONTHS TO A YEAR AFTER THE BEFINNING OF EXPOSURE. CO-EXPOSURE TO METHYLETHYL KETONE OR METHYL ISOBUTYL KETONE INCREASES THE NEUROTOXIC PROPERTIES OF N-HEXANE. IN LABORATORY STUDIES, PROLONGED EXPOSURE TO ELEVATED CONCENTRATIONS OF N-HEXANE WAS ASSOCIATED WITH DECREASED SPERM COUNT AND DEGENERATIVE CHANGES IN THE TESTICLES OF RATS.

### **SECTION 12: ECOLOGICAL INFORMATION**

#### **ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

ECOTOXICITY DATA ARE NOT AVAILABLE FOR THIS PRODUCT. AQUATIC TOXICITY VALES ARE EXPECTED TO BE IN THE RANGE OF 1-10 mg/l BASED UPON DATA FROM COMPONENTS AND SIMILAR PRODUCTS. THIS MIXTURE CONTAINS COMPONENTS THAT ARE POTENTIALLY TOXID TO FRESHWATER AND SALTWASTER ECOSYSTEMS.

**ENVIRONMENTAL TOXICITY:** THIS PRODUCT WILL NORMALLY FLOAT ON WATER. COMPONENTS WILL EVAPORATE RAPIDLY. THIS MATERIAL MAY BE HARMFUL TO AQUATIC ORGANISMS AND MAY CAUSE LONG TERM ADVERSE EFECTS IN THE AQUATIC ENVIRONMENT. THE OCTANOL WATER PARTITION COEFFICIENT (LOG KOW) FOR THIS PRODUCT IS EXPECTED TO BE IN THE RANGE OF 2.1 TO 5.

### **SECTION 13: DISPOSAL CONSIDERATIONS**

**PREPARING WASTES FOR DISPOSAL:** WASTE DISPOSAL MUST BE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS

WASTE STREAM:

CODE: D001

CLASSIFICATION: (HAZARDOUS WASTE)

ORIGIN: (RCRA WASTE)

### **SECTION 14: TRANSPORT INFORMATION**

**UN NUMBER:** UN1208

**PROPER SHIPPING NAME:** HEXANES

**HAZARD CLASS NUMBER AND DESCRIPTION:** 3

**PACKING GROUP:** II

**DOT LABELS REQUIRED:** FLAMMABLE

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004)**

### **SECTION 15: REGULATORY INFORMATION**

**UNITED STATES REGULATIONS:**

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**THIS PRODUCT CONTAINS COMPONENTS CITED ON THE FOLLOWING REGULATIONS:**

<b>CHEMICAL NAME</b>	<b>CAS NUMBER</b>
HEXANE	64742-49-0

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

**SARA 302/304 EMERGENCY PLANNING AND NOTIFICATION:** THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III REQUIRES FACILITIES SUBJECT TO SUBPARTS 302 AND 304 TO SUBMIT EMERGENCY PLANNING AND NOTIFICATION INFORMATION BASED ON THRESHOLD PLANNING QUANTITY (TPQS) AND REPORTABLE QUANTITIES (RQS) FOR EXTREMELY HAZARDOUS SUBSTANCES LISTED IN 40 CFR 302.4 AND 40 CFR 355. NO COMPONENTS WERE IDENTIFIED.

**SARA 311/312 HAZARD IDENTIFICATION:** THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA) TITLE III REQUIRES FACILITIES SUBJECT TO THIS SUBPART AGGREGATE INFORMATION ON CHEMICALS BY HAZARD CATEGORY AS DEFINED IN 40 CFR 370.2 THIS MATERIAL WOULD BE CLASSIFIED UNDER THE FOLLOWING HAZARD CATEGORIES: FIRE, ACCUTE HEALTH HAZARD, CHRONIC, HEALTH HAZARD

**SARA 313 TOXIC CHEMICAL NOTIFICATION AND RELEASE REPORTING:** THIS PRODUCT CONTAINS THE FOLLOWING COMPONENTS IN CONCENTRATIONS ABOVE THE MINIMUM LEVELS THAT ARE LISTED AS TOXIC CHEMICALS IN 40 CFR PART 372 PURSUANT TO THE REQUIREMENTS OF SECTION 313 OF SARA: HEXANE

**US CERCLA REPORTABLE QUANTITY (RQ):** HEXANE 5000 LB

**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 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.

**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.

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**SECTION 16: OTHER INFORMATION:**

**PREPARED BY:** DAWN STYLES, SOCAR CHEMICAL

**DATE OF PREPARATION:** JANUARY 2012

**DATE OF LAST REVISION:** OCTOBER 2013

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