

SOCAR CHEMICAL COMPANY INC

2609 RUTHERFORD RD

GREENVILLE SC 29609

864-244-5068

SAFETY DATA SHEET: **POWDER (CAUSTIC) PARTS WASH**

ISSUE DATE: 10-11-13

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

PRODUCT NAME: POWDER CAUSTIC PARTS WASH

CHEMICAL FAMILY NAME: CAUSTIC SODA PENTABEAD

PRODUCT USE: RE-CIRCULATING WATER PARTS WASH

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

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SECTION 2: HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:

THIS IS A ODORLESS WHITE POWDER

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):

CORROSIVE LIQUIDS, CATEGORY

EYE IRRITATION, CATEGORY

SIGNAL WORD: WARNING!

PRECAUTIONARY STATEMENT(S):

KEEP CONTAINER TIGHTLY CLOSED

WEAR PROTECTIVE GLOVES AND EYE/FACE PROTECTION

STORE IN COOL/WELL VENTILATED PLACE

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.

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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 DIAHRREA, BLOOD IN THE FECES AND/OR VOMITUS MAY ALSO BE SEEN.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT	CAS NUMBER	PERCENT BY WEIGHT
SODIUM HYDROXIDE	1310-73-2	~95%

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.

EYE 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: NOT APPLICABLE

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. SODIUM HYDROXIDE + ZINC METAL DUST CAUSES IGNITION ON THE LATTER. UNDER PROPER CONDITIONS OF TEMPERATURE, PRESSURE AND STATE OF DIVISION, IT CAN IGNITE OR REACT VIOLENTLY WITH ACETALDEHYDE, ALLY ALCOHOL, ALLY CHLORIDE, BENZENE 1,4-DIOL, CHLORINE TRIFLUORIDE, 1,2 DICHLOROETHYLENE, NITROETHANE, NITROMETHANE, NITROPARAFFINS, NITROPROPANE, CINNAMALDEHYDE, 2,2 DICHLORO-3,3-DIMETHYBUTANE. SODIUM HYDROXIDE IN CONTACT WITH WATER MAY GENERATE ENOUGH HEAT TO IGNITE ADJACENT COMBUSTIBLE MATERIALS. PHOSPHOROUS BOILED

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WITH NaOH YIELDS MIXED PHOSPHINES WHICH MAY IGNITE SPONTANEOUSLY IN AIR. SODIUM HYDROXIDE AND CINNAMALDEHYDE + HEAT MAY IGNITION. REACTION WITH CERTAIN METALS RELEASES FLAMMABLE AND EXPLOSIVE HYDROGEN GAS.

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. IF NECESSARY NEUTRALIZE THE RESIDUE WITH A DILUTE SOLUTION OF ACETIC ACID.

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

CHEMICAL NAME	CAS#	ACGIH TWA	OSHA TWA	NIOSH
SODIUM HYDROXIDE	1310-73-2	STEL 2 (mg/m)	TWA 2 CEIL 2 mg/m	CEIL 2 mg?m

CONSULT LOCAL AUTHORITIES FOR ACCEPTABLE EXPOSURE LIMITS

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

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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: WHITE SOLID PELLETS/POWDER

ODOR: ODORLESS

ODOR THRESHOLD (PPM): NOT AVAILABLE

PH: 14

FREEZING POINT: NOT APPLICABLE

BOILING POINT: 2530.4°F

FLASH POINT: NOT APPLICABLE

EVAPORATION RATE: NOT APPLICABLE

FLAMMABILITY: NOT APPLICABLE

EXPLOSIVE LIMITS (mmHg): NOT APPLICABLE

VAPOR DENSITY (AIR=1): NOT APPLICABLE

RELATIVE DENSITY: NOT AVAILABLE

SOLUBILITY: SOLUBLE

PARTITION COEFFICIENT: N-OCTANOL/WATER: NOT AVAILABLE

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE

DECOMPOSITION TEMPERATURE: NOT AVAILABLE

VISCOSITY: NOT APPLICABLE

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: NOT AVAILABLE

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: INCOMPATIBLE MATERIALS, MOISTURE, MOIST AIR

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: GENERATES HEAT WHEN MIXED WITH ACID. MAY REACT WITH AMMONIUM SALT SOLUTIONS RESULTING IN EVOLUTION OF AMMONIA GAS. FLAMMABLE HYDROGEN GAS MAY BE PRODUCED ON CONTACT WITH ALUMINUM, TIN, LEAD, ZINC. CARBON MONOXIDE GAS MAY BE PRODUCED ON CONTACT WITH REDUCING SUGARS.

DECOMPOSITION PRODUCTS: HYDROGEN

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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: ANIMALS NOT AVAILABLE, ON HUMANS MUTAGENIC EFFECTS: MUTAGENIC FOR MAMMALIAN SOMATIC CELLS. MAY CAUSE DAMAGE TO THE FOLLOWING ORGANS: MUCOUS MEMBRANES, UPPER RESPIRATORY TRACT, SKIN AND EYES. EXTREMELY HAZARDOUS IN CASE OF INHALATION (LUNG CORROSIVE). VERY HAZARDOUS IN CASE OF SKIN CONTACT (CORROSIVE, IRRITANT, PERMEATOR) OF EYE CONTACT (CORROSIVE) OF INGESTION.

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: THIS MATERIAL IS NOT PERSISTENT IN AQUATIC SYSTEMS, BUT ITS HIGH PH WHEN UNDILUTED OR UNNEUTRALIZED IS ACUTELY HARMFUL TO AQUATIC LIFE.

DEGRADATION & PERSISTENCE: POSSIBLY HAZARDOUS SHORT TERM DEGRADATION PRODUCTS ARE NOT LIKELY. HOWEVER LONG TERM DEGRADATION PRODUCTS MAY ARISE. THE PRODUCT ITSELF AND ITS PRODUCTS OF DEGRADATION ARE NOT TOXIC.

BIOACCUMLULATION POTENTIAL: NOT AVAILABLE

MOVEMENT IN SOIL: ACCIDENTAL SPILLAGE MAY LEAD TO PENETRATION IN THE SOIL AND GROUNDWATER. HOWEVER THERE IS NO EVIDENCE THAT THIS WOULD CASE ADVERSE 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: DISPOSED DRY/SOLID MATERIAL IS NOT CLASSIFIED AS A RCRA HAZARDOUS WASTE. HOWEVER, DISPOSED WATER/WET SOLUTIONS CONTAINING THIS MATERIAL ARE CLASSIFIED AS RCRA HAZARDOUS WASTE. IF THEY EXHIBIT THE CORROSIVE CHARACTERISTIC (PH GREATER THAN OR EQUAL TO 12.5) AS DEFINED IN EPA RULES AT 40 CFR 261.22 (A) (1).

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: UN1823

PROPER SHIPPING NAME: SODIUM HYDROXIDE SOLID

HAZARD CLASS NUMBER AND DESCRIPTION: 8

PACKING GROUP: II

DOT LABELS REQUIRED: CORROSIVE

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004)

MARINE POLLUTANT: NOT AVAILABLE

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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. SODIUM HYDROXIDE

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): 1000 lbs

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

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.

SECTION 16: OTHER INFORMATION:

HMIS RATING: HEALTH: 3

FLAMMABILITY: 0

REACTIVITY: 2

PERSONAL PROTECTION: X

PREPARED BY: DAWN STYLES, SOCAR CHEMICAL

DATE OF LAST REVISION: MARCH 2014

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