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Material Safety Data
Sheet

Barnes Distribution

MSDS Form No. : 023487

Item No. : A73420-1

MATERIAL SAFETY DATA SHEET

I-CHEM(R*) MAINTENANCE SOLUTIONS FOR INDUSTRY

I-CHEM BRAKE WASH NC (#ICA734)

-----SECTION 1: PRODUCT AND COMPANY IDENTIFICATION -----

PRODUCT NAME: I-CHEM BRAKE WASH NC (#ICA734)

PRODUCT NUMBER: A00734

PRODUCT USE: BRAKE CLEANER.

MANUFACTURER/SUPPLIER:

AMREP, INC.

990 INDUSTRIAL PARK DRIVE

MARIETTA, GA 30062

PHONE NUMBER: (770) 422-2071 (MON - FRI / 8AM - 5PM ET)

D.O.T. EMERGENCY PHONE:

CHEM TEL: (800) 255-3924

INTERNATIONAL: + 01-813-248-0584

DATE OF PREPARATION: FEBRUARY 14, 2012

REVISION #: 2.1

-----SECTION 2: HAZARDS IDENTIFICATION -----

EMERGENCY OVERVIEW:

HMIS: SEE SECTION 15

DANGER:

EXTREMELY FLAMMABLE. HARMFUL BY INHALATION. MAY CAUSE EYE IRRITATION.

MAY CAUSE SKIN IRRITATION. CONTENTS UNDER PRESSURE. CONTAINER MAY EXPLODE IF HEATED.

POTENTIAL HEALTH EFFECTS: SEE SECTION 11 FOR MORE INFORMATION.

LIKELY ROUTES OF EXPOSURE:

SKIN CONTACT, EYE CONTACT, INHALATION, AND INGESTION.

EYE: MAY CAUSE EYE IRRITATION.

SKIN: MAY CAUSE SKIN IRRITATION.

INGESTION: NOT A NORMAL ROUTE OF EXPOSURE.

HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

INHALATION:

HARMFUL BY INHALATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE ASPHYXIATION. THIS PRODUCT MAY BE ASPIRATED INTO THE LUNGS AND CAUSE CHEMICAL PNEUMONITIS.

CHRONIC EFFECTS:

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.

SIGNS AND SYMPTOMS:

SYMPTOMS MAY INCLUDE DISCOMFORT OR PAIN, EXCESS BLINKING AND TEAR PRODUCTION, WITH MARKED REDNESS AND SWELLING OF THE CONJUNCTIVA. HANDLING CAN CAUSE DRY SKIN. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: ASTHMA. ALLERGIES.

TARGET ORGANS: SKIN, EYES, GASTROINTESTINAL TRACT, RESPIRATORY SYSTEM.

THIS PRODUCT IS A "HAZARDOUS CHEMICAL" AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200.

POTENTIAL ENVIRONMENTAL EFFECTS:

MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. SEE SECTION 12

FOR MORE INFORMATION.

-----SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS -----

INGREDIENT	CAS #	WT. %
HEPTANE	142-82-5	60 - 100
ETHANOL	64-17-5	3 - 7
ISOPROPANOL	67-63-0	3 - 7
CARBON DIOXIDE	124-38-9	1 - 5
TOLUENE	108-88-3	<0.1
BENZENE	71-43-2	<0.1
ETHYLBENZENE	100-41-4	<0.1
ACETALDEHYDE	75-07-0	<0.1

-----SECTION 4: FIRST AID MEASURES -----

EYE CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER. IF EASY TO DO,
REMOVE CONTACT LENSES, IF WORN.

SKIN CONTACT:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CLOTHING BEFORE REUSE. CALL A PHYSICIAN
IF IRRITATION DEVELOPS AND PERSISTS.

INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL

RESPIRATION.
IF BREATHING IS DIFFICULT, GIVE OXYGEN.

INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

GENERAL ADVICE:
IN CASE OF ACCIDENT OR IF YOU FEEL UNWELL, SEEK MEDICAL ADVICE IMMEDIATELY (SHOW THE LABEL OR MSDS WHERE POSSIBLE).

NOTE TO PHYSICIANS: SYMPTOMS MAY NOT APPEAR IMMEDIATELY.

-----SECTION 5: FIRE FIGHTING MEASURES -----

FLAMMABILITY: EXTREMELY FLAMMABLE BY OSHA CRITERIA.

MEANS OF EXTINCTION:
SUITABLE EXTINGUISHING MEDIA: POWDER, FOAM, CARBON DIOXIDE.
UNSUITABLE EXTINGUISHING MEDIA: WATER.

PRODUCTS OF COMBUSTION:
MAY INCLUDE, AND ARE NOT LIMITED TO: OXIDES OF CARBON.

EXPLOSION DATA:
SENSITIVITY TO MECHANICAL IMPACT: NOT AVAILABLE.
SENSITIVITY TO STATIC DISCHARGE: NOT AVAILABLE.

PROTECTION OF FIREFIGHTERS:
CONTAINERS MAY EXPLODE WHEN HEATED. KEEP UPWIND OF FIRE. WEAR FULL FIRE FIGHTING TURN-OUT GEAR (FULL BUNKER GEAR) AND RESPIRATORY PROTECTION (SCBA).

-----SECTION 6: ACCIDENTAL RELEASE MEASURES -----

PERSONAL PRECAUTIONS:
USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8. ISOLATE THE HAZARD AREA AND DENY ENTRY TO UNNECESSARY AND UNPROTECTED PERSONNEL. ELIMINATE SOURCES OF IGNITION. RUPTURED CYLINDERS MAY ROCKET.

ENVIRONMENTAL PRECAUTIONS:
MANY GASES ARE HEAVIER THAN AIR AND WILL SPREAD ALONG GROUND AND COLLECT IN LOW OR CONFINED AREAS (SEWERS, BASEMENTS, TANKS). THIS MATERIAL IS A WATER POLLUTANT. KEEP OUT OF DRAINS, SEWERS, DITCHES, AND WATERWAYS. MINIMIZE USE OF

WATER TO PREVENT ENVIRONMENTAL CONTAMINATION.

METHODS FOR CONTAINMENT:

CONTAIN AND/OR ABSORB SPILL WITH INERT MATERIAL (E.G. SAND, VERMICULITE), THEN PLACE IN A SUITABLE CONTAINER. DO NOT FLUSH TO SEWER OR ALLOW TO ENTER WATERWAYS. USE APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE).

METHODS FOR CLEAN-UP:

VACUUM OR SWEEP MATERIAL AND PLACE IN A DISPOSAL CONTAINER. ALLOW GAS TO DISSIPATE HARMLESSLY INTO THE ATMOSPHERE.

OTHER INFORMATION: NOT AVAILABLE.

-----SECTION 7: HANDLING AND STORAGE -----

HANDLING:

KEEP AWAY FROM SOURCES OF IGNITION. NO SMOKING. AVOID CONTACT WITH SKIN AND EYES. DO NOT SWALLOW. DO NOT BREATHE GAS/FUMES/VAPOR/SPRAY. USE ONLY IN WELL-VENTILATED AREAS. HANDLE AND OPEN CONTAINER WITH CARE. WHEN USING, DO NOT EAT OR DRINK. WASH HANDS BEFORE EATING, DRINKING, OR SMOKING.

STORAGE:

KEEP OUT OF THE REACH OF CHILDREN. KEEP CONTAINER IN A WELL-VENTILATED PLACE. DO NOT STORE AT TEMPERATURES ABOVE 49 DEG. C / 120 DEG. F.

-----SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION -----

EXPOSURE GUIDELINES:

INGREDIENT	EXPOSURE LIMITS	
	OSHA-PEL	ACGIH-TLV
HEPTANE	400 PPM	400 PPM
ETHANOL	1000 PPM	1000 PPM
ISOPROPANOL	400 PPM	200 PPM
CARBON DIOXIDE	5000 PPM	5000 PPM
TOLUENE	200 PPM	20 PPM

BENZENE	10 PPM	0.5 PPM
ETHYLBENZENE	100 PPM	20 PPM
ACETALDEHYDE	200 PPM	NOT AVAILABLE.

ENGINEERING CONTROLS:

USE VENTILATION ADEQUATE TO KEEP EXPOSURES (AIRBORNE LEVELS OF DUST, FUME, VAPOR, ETC.) BELOW RECOMMENDED EXPOSURE LIMITS.

PERSONAL PROTECTIVE EQUIPMENT:

HMIS: SEE SECTION 15

EYE/FACE PROTECTION: WEAR EYE/FACE PROTECTION.

HAND PROTECTION: WEAR SUITABLE GLOVES.

SKIN AND BODY PROTECTION: WEAR SUITABLE PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION:

IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT.

GENERAL HYGIENE CONSIDERATIONS:

HANDLE ACCORDING TO ESTABLISHED INDUSTRIAL HYGIENE AND SAFETY PRACTICES.

-----SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES -----

APPEARANCE: CLEAR.

COLOR: COLORLESS.

ODOUR: SOLVENT.

ODOUR THRESHOLD: NOT AVAILABLE.

PHYSICAL STATE: GAS/PRESSURIZED LIQUID.

PH: NOT APPLICABLE.

VISCOSITY: NOT AVAILABLE.

FREEZING POINT: NOT AVAILABLE.

BOILING POINT: NOT AVAILABLE.

FLASH POINT: NOT AVAILABLE.

EVAPORATION RATE: NOT AVAILABLE.

LOWER FLAMMABILITY LIMIT: NOT AVAILABLE.

UPPER FLAMMABILITY LIMIT: NOT AVAILABLE.

VAPOR PRESSURE: 80-100 PSIG @ 21 DEG. C (70 DEG. F)

VAPOR DENSITY: NOT AVAILABLE.

SPECIFIC GRAVITY: 0.685 (CONCENTRATE ONLY)

SOLUBILITY IN WATER: INSOLUBLE.

COEFFICIENT OF WATER/OIL DISTRIBUTION: NOT AVAILABLE.

AUTO-IGNITION TEMPERATURE: NOT AVAILABLE.

PERCENT VOLATILE, WT. %: NOT AVAILABLE.

VOC CONTENT, WT. %: 95.0% (US FEDERAL/CARB/OTC/LADCO)

VOC CONTENT, G/L: NOT AVAILABLE.

-----SECTION 10: STABILITY AND REACTIVITY -----

STABILITY:

STABLE UNDER NORMAL STORAGE CONDITIONS. CONTENTS UNDER PRESSURE. CONTAINER
MAY

EXPLODE IF HEATED. DO NOT PUNCTURE. DO NOT BURN. KEEP IN A COOL PLACE.

CONDITIONS OF REACTIVITY: HEAT. INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: OXIDIZERS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY INCLUDE, AND ARE NOT LIMITED TO: OXIDES OF CARBON.

POSSIBILITY OF HAZARDOUS REACTIONS:

NO DANGEROUS REACTION KNOWN UNDER CONDITIONS OF NORMAL USE.

-----SECTION 11: TOXICOLOGY INFORMATION -----

EFFECTS OF ACUTE EXPOSURE:**COMPONENT ANALYSIS:**

INGREDIENT	LD50 (ORAL)	LC50
HEPTANE	5000 MG/KG, MOUSE	103 G/M3 4HR, RAT
ETHANOL	7060 MG/KG, RAT	124.7 MG/L 4HR, RAT
ISOPROPANOL	4396 MG/KG, RAT	72.6 MG/L 4HR, RAT
CARBON DIOXIDE	NOT AVAILABLE.	NOT AVAILABLE.
TOLUENE	636 MG/KG, RAT	12.5 MG/L 4HR, RAT; 26700 PPM 1HR, RAT
BENZENE	1800 MG/KG, RAT	13050-14380 PPM 4HR, RAT
ETHYLBENZENE	3500 MG/KG, RAT	17.2 MG/L 4HR, RAT
ACETALDEHYDE	1930 MG/KG, RAT	NOT AVAILABLE.

EYE:

MAY CAUSE EYE IRRITATION. SYMPTOMS MAY INCLUDE DISCOMFORT OR PAIN, EXCESS BLINKING AND TEAR PRODUCTION, WITH MARKED REDNESS AND SWELLING OF THE CONJUNCTIVA.

SKIN: MAY CAUSE SKIN IRRITATION. HANDLING CAN CAUSE DRY SKIN.

INGESTION: NOT A NORMAL ROUTE OF EXPOSURE.

HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.

INHALATION:

HARMFUL BY INHALATION. MAY CAUSE RESPIRATORY TRACT IRRITATION. MAY CAUSE ASPHYXIATION. THIS PRODUCT MAY BE ASPIRATED INTO THE LUNGS AND CAUSE CHEMICAL PNEUMONITIS. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.

EFFECTS OF CHRONIC EXPOSURE:

TARGET ORGANS: NOT AVAILABLE.

CHRONIC EFFECTS:

(EFFECTS DUE TO EXCESSIVE EXPOSURE TO THE RAW MATERIALS OF THIS MIXTURE)
EXCESSIVE INHALATION MAY CAUSE CENTRAL NERVOUS SYSTEM EFFECTS.

CARCINOGENICITY: NOT HAZARDOUS BY OSHA CRITERIA.

INGREDIENT	CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN *
HEPTANE	NOT LISTED.
ETHANOL	G-A3, I-1
ISOPROPANOL	G-A4, I-3
CARBON DIOXIDE	NOT LISTED.
TOLUENE	G-A4, I-3, CP65
BENZENE	O, G-A1, I-1, N-1, CP65
ETHYLBENZENE	G-A3, I-2B, CP65
ACETALDEHYDE	G-A3, I-1, I-2B, N-2, CP65

* SEE SECTION 15 FOR MORE INFORMATION.

MUTAGENICITY: HAZARDOUS BY OSHA CRITERIA.

REPRODUCTIVE EFFECTS: NOT HAZARDOUS BY OSHA CRITERIA.

DEVELOPMENTAL EFFECTS:

TERATOGENICITY: NOT HAZARDOUS BY OSHA CRITERIA.

EMBRYOTOXICITY: NOT HAZARDOUS BY OSHA CRITERIA.

RESPIRATORY SENSITIZATION: NOT HAZARDOUS BY OSHA CRITERIA.

SKIN SENSITIZATION: NOT HAZARDOUS BY OSHA CRITERIA.

TOXICOLOGICALLY SYNERGISTIC MATERIALS: NOT AVAILABLE.

-----SECTION 12: ECOLOGICAL INFORMATION -----

ECOTOXICITY:

MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT

PERSISTENCE / DEGRADABILITY: NOT AVAILABLE.

BIOACCUMULATION / ACCUMULATION: NOT AVAILABLE.

MOBILITY IN ENVIRONMENT: NOT AVAILABLE.

-----SECTION 13: DISPOSAL CONSIDERATIONS -----

DISPOSAL INSTRUCTIONS:

THIS MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH ALL LOCAL, STATE, PROVINCIAL, AND FEDERAL REGULATIONS.

-----SECTION 14: TRANSPORTATION INFORMATION -----

DOT CLASSIFICATION:

ORM-D

LIMITED QUANTITY

-----SECTION 15: REGULATORY INFORMATION -----

FEDERAL REGULATIONS:

US:

MSDS PREPARED PURSUANT TO THE HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

SARA TITLE III:

INGREDIENT	SECTION 302 (EHS) TPQ (LBS.)	SECTION 304 EHS RQ (LBS.)	CERCLA RQ (LBS.)	SECTION 313
HEPTANE LISTED.	NOT LISTED.	NOT LISTED.	NOT LISTED.	NOT
ETHANOL LISTED.	NOT LISTED.	NOT LISTED.	NOT LISTED.	NOT
ISOPROPANOL	NOT LISTED.	NOT LISTED.	NOT LISTED.	YES.
CARBON DIOXIDE LISTED.	NOT LISTED.	NOT LISTED.	NOT LISTED.	NOT
TOLUENE	NOT LISTED.	NOT LISTED.	1,000	313
BENZENE	NOT LISTED.	NOT LISTED.	10	313

ETHYLBENZENE	NOT LISTED.	NOT LISTED.	1,000	313
ACETALDEHYDE	NOT LISTED.	NOT LISTED.	1,000	313

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

GLOBAL INVENTORIES:

INGREDIENT	USA TSCA
HEPTANE	YES.
ETHANOL	YES.
ISOPROPANOL	YES.
CARBON DIOXIDE	YES.
TOLUENE	YES.
BENZENE	YES.
ETHYLBENZENE	YES.
ACETALDEHYDE	YES.

HMIS - HAZARDOUS MATERIALS IDENTIFICATION SYSTEM:

HEALTH	2*
FLAMMABILITY	3
PHYSICAL HAZARD	0
PPE	B

NFPA - NATIONAL FIRE PROTECTION ASSOCIATION:

HEALTH	2
FIRE	3
REACTIVITY	0

HAZARD RATING:

0	= MINIMAL
1	= SLIGHT
2	= MODERATE
3	= SEVERE
4	= EXTREME

SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

OSHA (O) OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

ACGIH (G) AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.

A1 - CONFIRMED HUMAN CARCINOGEN.

A2 - SUSPECTED HUMAN CARCINOGEN.

A3 - ANIMAL CARCINOGEN.

A4 - NOT CLASSIFIABLE AS A HUMAN CARCINOGEN.

A5 - NOT SUSPECTED AS A HUMAN CARCINOGEN.

IARC (I) INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

1 - THE AGENT (MIXTURE) IS CARCINOGENIC TO HUMANS.

2A:

THE AGENT (MIXTURE) IS PROBABLY CARCINOGENIC TO HUMANS; THERE IS LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS AND SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS.

2B:

THE AGENT (MIXTURE) IS POSSIBLY CARCINOGENIC TO HUMANS; THERE IS LIMITED EVIDENCE OF CARCINOGENICITY IN HUMANS IN THE ABSENCE OF SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL ANIMALS.

3 - THE AGENT (MIXTURE, EXPOSURE CIRCUMSTANCE) IS NOT CLASSIFIABLE AS TO ITS CARCINOGENICITY TO HUMANS.

4 - THE AGENT (MIXTURE, EXPOSURE CIRCUMSTANCE) IS PROBABLY NOT CARCINOGENIC TO HUMANS.

NTP (N) NATIONAL TOXICOLOGY PROGRAM.

1 - KNOWN TO BE CARCINOGENS.

2 - REASONABLY ANTICIPATED TO BE CARCINOGENS.

-----SECTION 16: OTHER INFORMATION -----

DISCLAIMER:

WE BELIEVE THE STATEMENTS, TECHNICAL INFORMATION AND RECOMMENDATIONS CONTAINED

HEREIN ARE RELIABLE, BUT THEY ARE GIVEN WITHOUT WARRANTY OR GUARANTEE OF ANY

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**FOR
THE USER'S OWN PARTICULAR USE.**

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