

ITEM: 1ANJ2 - Alkaline Based Coil Cleaner Aerosol

MSDS: A8493

ORDER: 0034715082

LP NUMBER: U828356829

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - A8493

Associated Grainger Items
1ANJ2

NU-CALGON WHOLESALER, INC.

MATERIAL SAFETY DATA SHEET

AEROSOL NU-BRITE

I - PRODUCT IDENTIFICATION

COMPANY NAME: NU-CALGON WHOLESALER, INC.

ADDRESS:
2008 ALTOM COURT
ST. LOUIS, MO 63146-4151

TEL NO:
(314) 469-7000
(800) 554-5499

CHEMTREC: (800) 424-9300

PRODUCT NAME: AEROSOL NU-BRITE

PRODUCT NUMBER: 4291-18

SYNONYMS: ALKALINE CLEANER/DEGREASER

II - HAZARDOUS INGREDIENTS OF MIXTURES

MATERIAL	CAS#	% BY WT	TLV	PEL
CAUSTIC SODA, 50%	1310-73-2	10-20		2 MG/MB
MONOETHANOLAMINE	141-43-5	1-5		3 PPM
LIQUEFIED PETROLEUM GAS**	98476-85-7	1-10		1000 PPM

**2500 PPM ACGIH EXPOSURE LIMITS

ALL INGREDIENTS ARE TSCA LISTED.

III - PHYSICAL DATA

VAPOR PRESSURE: 50 PSI

VAPOR DENSITY (AIR=1) 60-90 DEG. F: 1.55

EVAPORATION RATE: <ETHER

VOC CONTENT (% BY WT.): NOT DETERMINED

SOLUBILITY IN H2O: PARTIAL

pH @ SOLUTION: N

FREEZING POINT DEG. F: NOT DETERMINED

pH AS DISTRIBUTED: 13

BOILING POINT DEG. F: NOT DETERMINED

APPEARANCE: AEROSOL SPRAY

SPECIFIC GRAVITY H2O=1 @ 25 DEG. C: 1.10 (CONCENTRATE)

ODOR: CHEMICAL FRAGRANCE

IV - FIRE AND EXPLOSION

FLASH POINT F: NOT DETERMINED

FLAMMABLE LIMITS:

LEL: 10.8%

UEL: 9.5%

EXTINGUISHING MEDIA:

WATER FOG OR FINE SPRAY, CARBON DIOXIDE, DRY CHEMICAL, FOAM, ALCOHOL-RESISTANT FOAMS (AIC TYPE) ARE PREFERRED IF AVAILABLE. GENERAL PURPOSE SYNTHETIC FOAMS (INCLUDING AFFF) OR PROTEIN FOAMS MAY FUNCTION BUT MUCH LESS EFFECTIVELY.

SPECIAL FIRE FIGHTING PROCEDURES:

KEEP PEOPLE AWAY. ISOLATE FIRE AREA AND DENY UNNECESSARY ENTRY.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

MATERIAL IS HIGHLY VOLATILE AND READILY GIVES OFF VAPORS WHICH MAY TRAVEL ALONG THE GROUND AND BE IGNITED BY PILOT LIGHTS, FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGES OR OTHER IGNITION SOURCE DISTANT FROM THE HANDLING POINT.

V - REACTIVITY DATA

STABILITY - CONDITIONS TO AVOID:

STABLE UNDER NORMAL CONDITIONS - KEEP AWAY FROM HEAT, SPARKS AND OPEN FLAMES

INCOMPATIBILITY:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS, STRONG ALKALIS AND STRONG MINERAL ACIDS. CAN REACT WITH REACTIVE METALS SUCH AS ALUMINUM, ZINC, MAGNESIUM, COPPER, ETC. TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURE WITH AIR.

HAZARDOUS DECOMPOSITION PRODUCTS:
BURNING CAN PRODUCE CO AND /OR CARBON DIOXIDE AND TRACE OF PHOSGENE GAS
CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATIONS: WILL NOT OCCUR

VI - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE (MEDICAL CONDITIONS AGGRAVATED/TARGET ORGAN EFFECTS):

A. ACUTE (PRIMARY ROUTE OF EXPOSURE) EFFECTS OF OVER-EXPOSURE:
SHORTNESS OF BREATH, DIZZINESS, AND LIGHT-HEADEDNESS. CAN CAUSE EYE IRRITATION, SKIN IRRITATION, DERMATITIS. CAN CAUSE CHEMICAL PNEUMONIA IF ASPIRATE INTO LUNGS.

EYE:
EXPOSURE CAN CAUSE IRREVERSIBLE EYE DAMAGE OR INJURY. GAS PHASE NOT EXPECTED TO CAUSE EYE IRRITATION. LIQUID PHASE CAN CAUSE FROSTBITE AND BURNS.

SKIN: EXPOSURE CAN CAUSE IRREVERSIBLE DAMAGE, BURNS OR FROSTBITE.

INHALATION:
MAY BE HARMFUL OR FATAL. MAY CAUSE DAMAGE TO NASAL AND RESPIRATORY PASSAGES. GAS IS AN ASPHYXIATE AND MAY EXHIBIT ANESTHETIC PROPERTIES AT HIGH CONCENTRATIONS.

INGESTION:
MAY BE HARMFUL OR FATAL. RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANES AND DEEP TISSUES.

B. SUBCHRONIC, CHRONIC, OTHER:
PROLONGED EXPOSURE ABOVE THE OSHA PERMISSIBLE EXPOSURE LIMITS (PEL) MAY RESULT IN KIDNEY AND LIVER DAMAGE.

C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE: NONE RECOGNIZED.

VII - EMERGENCY AND FIRST AID PROCEDURES

INHALATION:
REMOVE INDIVIDUAL TO FRESH AIR. GIVE OXYGEN IF BREATHING IS LABORED. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM AND QUIET. SEEK MEDICAL ATTENTION.

EYES:
FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 20 MINUTES. LIFT UPPER AND LOWER EYELIDS OCCASIONALLY. GET MEDICAL ATTENTION.

SKIN: THOROUGHLY FLUSH EXPOSED SKIN WITH SOAP AND WATER.

INGESTION:
IF SWALLOWED, DO NOT INDUCE VOMITTING. IMMEDIATELY DRINK TWO GLASSES OF WATER. NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

VIII - SPILL OR LEAK PROCEDURE

SPILL MANAGEMENT:
ISOLATE SPILL OR LEAK AREA IMMEDIATELY. KEEP UNAUTHORIZED PERSONNEL AWAY. VENTILATE AREA AND ELIMINATE ALL IGNITION SOURCES.

SMALL SPILLS:
CLEAN UP WITH INERT MATERIALS AND DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS.

LARGE SPILLS: NOT APPLICABLE DUE TO AEROSOL PACKAGE.

WASTE DISPOSAL METHODS:
EMPTY AEROSOL CONTAINERS MAY BE DISPOSED OF THROUGH NORMAL CHANNELS. FULL OR PARTIALLY FULL CONTAINERS ARE CONSIDERED HAZARDOUS WASTE AND MUST BE DISPOSED OF ACCORDINGLY.

IX - PROTECTION INFORMATION/CONTROL MEASURES

RESPIRATORY:
PERSONAL PROTECTIVE EQUIPMENT IS RECOMMENDED FOR PROLONGED OR REPEATED CONTACT.

EYE PROTECTION:
CHEMICAL SPLASH GOGGLES OR FACE SHIELD GLOVE: CHEMICAL RESISTANT GLOVES

OTHER CLOTHING AND EQUIPMENT: AS REQUIRED.

VENTILATION:
GENERAL VENTILATION MAY BE ADEQUATE FOR MAINTAINING AIRBORNE CONCENTRATIONS BELOW ESTABLISHED EXPOSURE LIMITS. IF GENERAL VENTILATION IS INADEQUATE, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED. WHERE EXPLOSIVE MIXTURE MAY BE PRESENT, SYSTEMS SAFE FOR SUCH LOCATIONS SHOULD BE USED.

OTHER SPECIAL PRECAUTIONS, SUCH AS RESPIRATORY PROTECTION, MAY BE REQUIRED IF AIRBORNE CONCENTRATIONS CANNOT BE REDUCED TO BELOW THE ESTABLISHED EXPOSURE LIMITS.

X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS AND OPEN FLAMES. CLOSED CONTAINER MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

ADDITIONAL INFORMATION:

NFPA:
HEALTH HAZARD 4
FIRE HAZARD 3
REACTIVITY 0
SPECIFIC HAZARD

HMS RATING:
HEALTH HAZARD 4
FIRE HAZARD 3
REACTIVITY 0
PERSONAL PROTECTION. X (SEC. 9)

REVISION DATE: 11/03/2004

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