

SDS: D4609

ITEM: 1ANG9 - Condenser Cleaner Liquid 1 gal Blu

ORDER: 0163266382

LP NUMBER: U875255816

SAFETY DATA SHEET (SDS)

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

SDS - D4609

Associated Grainger Items
1ANJ1, 1ANG9

NU-CALGON

SAFETY DATA SHEET

ISSUE DATE: 22-OCT-2013

REVISION DATE: 28-OCT-2013

VERSION: 1

1. IDENTIFICATION

PRODUCT IDENTIFIER:

PRODUCT NAME: NU-BRITE

OTHER MEANS OF IDENTIFICATION:

PART NUMBER: 4291-01, 4291-05, 4291-08.

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: COIL CLEANER/DEGREASER. FOR PROFESSIONAL USE ONLY.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER ADDRESS:
NU-CALGON
2008 ALTON COURT
ST. LOUIS, MO 63146

WWW.NUCALGON.COM

EMERGENCY TELEPHONE NUMBER:

COMPANY PHONE NUMBER:
(314) 469-7000
(800) 554-5499

EMERGENCY TELEPHONE (24 HR):
CHEMTREC: 1-800-424-9300

2. HAZARDS IDENTIFICATION

APPEARANCE: CLEAR BLUE LIQUID

PHYSICAL STATE: LIQUID

ODOR: BLAND

CLASSIFICATION:
SKIN CORROSION/IRRITATION: CATEGORY 1 SUB-CATEGORY B
SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 1

SIGNAL WORD: DANGER

HAZARD STATEMENTS:
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

CORROSION

PRECAUTIONARY STATEMENTS - PREVENTION:
DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY
WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING
WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION

PRECAUTIONARY STATEMENTS - RESPONSE:
IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF IN EYES:
RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF ON SKIN (OR HAIR):
REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER WASH CONTAMINATED CLOTHING BEFORE REUSE

IF INHALED:
REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

IF SWALLOWED:
RINSE MOUTH. DO NOT INDUCE VOMITING
IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

PRECAUTIONARY STATEMENTS - STORAGE: STORE LOCKED UP

PRECAUTIONARY STATEMENTS - DISPOSAL:
DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

UNKNOWN ACUTE TOXICITY:
4.3% OF THE MIXTURE CONSISTS OF INGREDIENT(S) OF UNKNOWN TOXICITY

3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO	WEIGHT-%
SODIUM HYDROXIDE	1310-73-2	15-25

IF CHEMICAL NAME/CAS NO IS "PROPRIETARY" AND/OR WEIGHT-% IS LISTED AS A RANGE, THE SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES

FIRST AID MEASURES:

EYE CONTACT:

IF IN EYES:

RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

SKIN CONTACT:

IF ON SKIN (OR HAIR):

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. WASH CONTAMINATED CLOTHING BEFORE REUSE.

INHALATION:

IF INHALED:

REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

INGESTION:

IF SWALLOWED:

RINSE MOUTH. DO NOT INDUCE VOMITING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

MOST IMPORTANT SYMPTOMS AND EFFECTS:

SYMPTOMS: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY.

5. FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

UNSUITABLE EXTINGUISHING MEDIA: NOT DETERMINED.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: MATERIAL IS CORROSIVE.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:
AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.

ENVIRONMENTAL PRECAUTIONS:
PREVENT FROM ENTERING INTO SOIL, DITCHES, SEWERS, WATERWAYS AND/OR GROUNDWATER. SEE SECTION 12, ECOLOGICAL INFORMATION. SEE SECTION 13: DISPOSAL CONSIDERATIONS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEAN-UP: KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:

ADVICE ON SAFE HANDLING:
HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY. WASH FACE, HANDS, AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS:

KEEP CONTAINER TIGHTLY CLOSED AND STORE IN A COOL, DRY AND WELL-VENTILATED PLACE. STORE LOCKED UP. KEEP OUT OF THE REACH OF CHILDREN.

INCOMPATIBLE MATERIALS:

ACIDS. OXIDIZING AGENTS. BLEACH. DO NOT MIX WITH OTHER CHEMICALS OR CLEANERS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE GUIDELINES:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
SODIUM HYDROXIDE	CEILING: 2 MG/M3	TWA: 2 MG/M3	IDLH: 10 MG/M3
1310-73-2		(VACATED) CEILING: 2 MG/M3	CEILING: 2 MG/M3

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING CONTROLS:

APPLY TECHNICAL MEASURES TO COMPLY WITH THE OCCUPATIONAL EXPOSURE LIMITS. EYEWASH STATIONS. SHOWERS.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

WEAR APPROVED SAFETY GOGGLES WHERE A SPLASH HAZARD EXISTS.

SKIN AND BODY PROTECTION: WEAR SUITABLE PROTECTIVE CLOTHING.

RESPIRATORY PROTECTION:
ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS. IN CASE OF
INADEQUATE VENTILATION WEAR RESPIRATORY PROTECTION.

GENERAL HYGIENE CONSIDERATIONS:
WASH CONTAMINATED CLOTHING BEFORE REUSE. WASH FACE, HANDS AND ANY EXPOSED
SKIN THOROUGHLY AFTER HANDLING.

9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: CLEAR BLUE LIQUID

ODOR: BLAND

COLOR: CLEAR BLUE

ODOR THRESHOLD: NOT DETERMINED

PROPERTY	VALUES	REMARKS - METHOD
PH	12.7 (1% IN WATER) 14.0 (CONCENTRATE)	
MELTING POINT/FREEZING POINT	NOT DETERMINED	
BOILING POINT/BOILING RANGE	100 DEG. C / 212 DEG. F	IBP
FLASH POINT	NONE TO BOILING	TAG CLOSED CUP
EVAPORATION RATE	EQUAL TO WATER	
FLAMMABILITY (SOLID, GAS)	LIQUID-NOT APPLICABLE	
UPPER FLAMMABILITY LIMITS	NOT DETERMINED	
LOWER FLAMMABILITY LIMIT	NOT DETERMINED	
VAPOR PRESSURE	NOT DETERMINED	
VAPOR DENSITY	NOT DETERMINED	
SPECIFIC GRAVITY	1.24	
WATER SOLUBILITY	SOLUBLE IN WATER	
SOLUBILITY IN OTHER SOLVENTS	NOT DETERMINED	
PARTITION COEFFICIENT	NOT DETERMINED	
AUTO-IGNITION TEMPERATURE	NOT DETERMINED	
DECOMPOSITION TEMPERATURE	NOT DETERMINED	
KINEMATIC VISCOSITY	NOT DETERMINED	
DYNAMIC VISCOSITY	WATER THIN (<5 CPS)	
EXPLOSIVE PROPERTIES	NOT DETERMINED	
OXIDIZING PROPERTIES	NOT DETERMINED	
VOC CONTENT (%)	NONE	
DENSITY	10.36 LB/GAL	

10. STABILITY AND REACTIVITY

REACTIVITY: NOT REACTIVE UNDER NORMAL CONDITIONS.

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE UNDER NORMAL PROCESSING.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

CONDITIONS TO AVOID:
KEEP OUT OF REACH OF CHILDREN. DO NOT MIX WITH OTHER CHEMICALS.

INCOMPATIBLE MATERIALS:
ACIDS, OXIDIZING AGENTS, BLEACH. DO NOT MIX WITH OTHER CHEMICALS OR
CLEANERS.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE KNOWN BASED ON INFORMATION SUPPLIED.

11. TOXICOLOGICAL INFORMATION

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:
EYE CONTACT: CAUSES SEVERE EYE DAMAGE.
SKIN CONTACT: CAUSES SEVERE SKIN BURNS.
INHALATION: AVOID BREATHING VAPORS OR MISTS.
INGESTION: DO NOT TASTE OR SWALLOW.

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
WATER 7732-18-5	>90 ML/KG (RAT)		
SODIUM HYDROXIDE 1310-73-2		=1350 MG/KG (RABBIT)	

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS:
SYMPTOMS: PLEASE SEE SECTION 4 OF THIS SDS FOR SYMPTOMS.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND
LONG-TERM EXPOSURE:

CARCINOGENICITY:

THIS PRODUCT DOES NOT CONTAIN ANY CARCINOGENS OR POTENTIAL CARCINOGENS AS
LISTED BY OSHA, IARC OR NTP.

NUMERICAL MEASURES OF TOXICITY: NOT DETERMINED

UNKNOWN ACUTE TOXICITY:

4.3% OF THE MIXTURE CONSISTS OF INGREDIENT(S) OF UNKNOWN TOXICITY.

12. ECOLOGICAL INFORMATION

ECOTOXICITY:

THE PRODUCT IS NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS. HOWEVER, THIS
DOES NOT EXCLUDE THE POSSIBILITY THAT LARGE OR FREQUENT SPILLS CAN HAVE A
HARMFUL OR DAMAGING EFFECT ON THE ENVIRONMENT.

COMPONENT INFORMATION:

CHEMICAL NAME	ALGAE/ AQUATIC PLANTS	FISH	TOXICITY TO CRUSTACEA MICROORGANISMS
SODIUM HYDROXIDE 1310-73-2		45.4: 96 H ONCORHYNCHUS MYKISS MG/L LC50 STATIC	

PERSISTENCE/DEGRADABILITY: BIODEGRADABLE.

BIOACCUMULATION: NOT DETERMINED.

MOBILITY: NOT DETERMINED

OTHER ADVERSE EFFECTS: NOT DETERMINED

13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:

DISPOSAL OF WASTES:
DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND
LOCAL LAWS AND REGULATIONS.

CONTAMINATED PACKAGING:
DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND
LOCAL LAWS AND REGULATIONS.

CALIFORNIA HAZARDOUS WASTE STATUS:

CHEMICAL NAME	CALIFORNIA HAZARDOUS WASTE STATUS
SODIUM HYDROXIDE 1310-73-2	TOXIC CORROSIVE

14. TRANSPORT INFORMATION

NOTE:

PLEASE SEE CURRENT SHIPPING PAPER FOR MOST UP TO DATE SHIPPING INFORMATION,
INCLUDING EXEMPTIONS AND SPECIAL CIRCUMSTANCES. WHEN SHIPPED DOMESTICALLY
BY GROUND IN CONTAINERS OF 1 LITER OR LESS THIS MATERIAL MAY BE
RECLASSIFIED AS "LIMITED QUANTITY" IN ACCORDANCE WITH DOT REGULATION
49 CFR 173.154. PLEASE SEE 49 CFR 172.500 FOR APPROPRIATE TRANSPORTATION
PLACARDING AND 49 CFR 172.400 FOR APPROPRIATE TRANSPORTATION LABELING.

DOT:

UN/ID NO: UN3266

PROPER SHIPPING NAME:
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

HAZARD CLASS: 8

PACKING GROUP: II

IATA:

UN/ID NO: UN3266

PROPER SHIPPING NAME:
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

HAZARD CLASS: 8

PACKING GROUP: II

IMDG:

UN/ID NO: UN3266

PROPER SHIPPING NAME:
CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE)

HAZARD CLASS: 8

PACKING GROUP: II

15. REGULATORY INFORMATION

INTERNATIONAL INVENTORIES: NOT DETERMINED

LEGEND:

TSCA: UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY

DSL/NDL: CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

EINECS/ELINCS:
EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES/EUROPEAN LIST OF
NOTIFIED CHEMICAL SUBSTANCES

ENCS: JAPAN EXISTING AND NEW CHEMICAL SUBSTANCES

IECSC: CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES

KECL: KOREAN EXISTING AND EVALUATED CHEMICAL SUBSTANCES

PICCS: PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

US FEDERAL REGULATIONS:

CERCLA:
THIS MATERIAL, AS SUPPLIED, CONTAINS ONE OR MORE SUBSTANCES REGULATED AS
A HAZARDOUS SUBSTANCE UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE
COMPENSATION AND LIABILITY ACT (CERCLA) (40 CFR 302)

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQS	CERCLA/SARA RQ	REPORTABLE QUANTITY (RQ)
SODIUM HYDROXIDE 1310-73-2	1000 LB		RQ 1000 LB FINAL RQ RQ 454 KG FINAL RQ

SARA 313:
SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION
ACT OF 1986 (SARA). THIS PRODUCT DOES NOT CONTAIN ANY CHEMICALS WHICH ARE
SUBJECT TO THE REPORTING REQUIREMENTS OF THE ACT AND TITLE 40 OF THE CODE
OF FEDERAL REGULATIONS, PART 372

CWA (CLEAN WATER ACT):
THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES WHICH ARE REGULATED
POLLUTANTS PURSUANT TO THE CLEAN WATER ACT (40 CFR 122.21 AND 40 CFR
122.42)

COMPONENT	CWA - REPORTABLE QUANTITIES	CWA - TOXIC POLLUTANTS	CWA - PRIORITY POLLUTANTS	CWA - HAZARDOUS SUBSTANCES
SODIUM HYDROXIDE 1310-73-2 (15-25)	1000 LB			X

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
THIS PRODUCT DOES NOT CONTAIN ANY PROPOSITION 65 CHEMICALS.

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
SODIUM HYDROXIDE 1310-73-2	X	X	X

16. OTHER INFORMATION

NFPA:
HEALTH HAZARDS 3
FLAMMABILITY 0
INSTABILITY 0
SPECIAL HAZARDS COR

HMIS:
HEALTH HAZARDS 3
FLAMMABILITY 0
PHYSICAL HAZARDS 0
PERSONAL PROTECTION X

ISSUE DATE: 22-OCT-2013

REVISION DATE: 28-OCT-2013

REVISION NOTE: NEW FORMAT

DISCLAIMER:
THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST
OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION.
THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING,
USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT
TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION
RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR
SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY
PROCESS, UNLESS SPECIFIED IN THE TEXT.

NUC-1600 - NU-BRITE