ATTN: SAFETY DIRECTOR
UNIVERSITY OF WISCONSIN
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DATE 06/04/96
CUST#: 2-097-94804
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MATERIAL SAFETY DATA SHEET PAGE 1

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

SECTION 1. - - - - - - CHEMICAL IDENTIFICATION - - - - - -

CATALOG #: S2127
NAME: SODIUM CARBONATE ANHYDROUS

SECTION 2. - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

CAS #: 497-19-8
MF: CNA203
EC NO.: 207-838-8

SYNONYMS
CARBONIC ACID. DISODIUM SALT. CRYSTAL CARBONATE. DISODIUM CARBONATE.
SODA ASH. SOLVAY SODA. TRONA.

SECTION 3. - - - - HAZARDS IDENTIFICATION - - - - - -

LABEL PRECAUTIONARY STATEMENTS
TOXIC (USA DEFINITION)
HAZARDOUS (EUROPEAN DEFINITION)
HAZARDOUS BY INHALATION. IN CONTACT WITH SKIN AND IF SWALLOWED.
CAUSES SEVERE IRRITATION.
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF
WATER AND SEEK MEDICAL ADVICE.
WEAR SUITABLE PROTECTIVE CLOTHING, GLOVES AND EYE/FACE
PROTECTION.
DO NOT BREATHE DUST.

SECTION 4. - - - - - - FIRST-AID MEASURES - - - - - -

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH COPIOUS
AMOUNTS OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED
CLOTHING AND SHOES.
ASSURE ADEQUATE FLUSHING OF THE EYES BY SEPARATING THE EYELIDS
WITH FINGERS.
IF INHALED, REMOVE TO FRESH AIR, IF NOT BREATHING GIVE ARTIFICIAL
RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IF SWALLOWED, WASH OUT MOUTH WITH WATER PROVIDED PERSON IS CONSCIOUS.
CALL A PHYSICIAN.
WASH CONTAMINATED CLOTHING BEFORE REUSE.
DISCARD CONTAMINATED SHOES.

SECTION 5. - - - - - - FIRE FIGHTING MEASURES - - - - - -

EXTinguishing MEDIA
NONCOMBUSTIBLE.
USE exTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CONDITIONS.

SPECIAL FIGHTING PROCEDURES

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

CUST#: 2-097-94804
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THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S2127
NAME: SODIUM CARBONATE ANHYDROUS

WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING TO PREVENT CONTACT WITH SKIN AND EYES.

UNUSUAL FIRE AND EXPLOSIONS HAZARDS
EMITS TOXIC FUMES UNDER FIRE CONDITIONS.

SECTION 6. - - - - - - ACCIDENTAL RELEASE MEASURES - - - - - -

EVACUATE AREA.
WEAR SELF-CONTAINED BREATHING APPARATUS, RUBBER BOOTS AND HEAVY RUBBER GLOVES.
WEAR DISPOSABLE COVERALLS AND DISCARD THEM AFTER USE.
SWEEP UP, PLACE IN A BAG AND HOLD FOR WASTE DISPOSAL.
AVOID RAISING DUST.
VENTILATE AREA AND WASH SPILL SITE AFTER MATERIAL PICKUP IS COMPLETE.

SECTION 7. - - - - - - HANDLING AND STORAGE - - - - - -

REFER TO SECTION 8.

ADDITIONAL INFORMATION
REACTS VIGOROUSLY WITH FLUORINE.

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

WEAR APPROPRIATE NIOSH/MSHA-APPROVED RESPIRATOR, CHEMICAL-RESISTANT GLOVES, SAFETY GOGGLES, OTHER PROTECTIVE CLOTHING.
USE ONLY IN A CHEMICAL FUME HOOD.
SAFETY SHOWER AND EYE BATH.
FACESHIELD (8-INCH MINIMUM).
DO NOT BREATHE DUST.
DO NOT GET IN EYES, ON SKIN, ON CLOTHING.
AVOID PROLONGED OR REPEATED EXPOSURE.
WASH THOROUGHLY AFTER HANDLING.

TOXIC.
SEVERE IRRITANT.
KEEP TIGHTLY CLOSED.
STORE IN A COOL DRY PLACE.

SECTION 9. - - - - PHYSICAL AND CHEMICAL PROPERTIES - - - -

APPEARANCE AND ODOR
WHITE GRANULAR POWDER

PHYSICAL PROPERTIES
MELTING POINT: 851 C
SPECIFIC GRAVITY: 2.532

SECTION 10. - - - - STABILITY AND REACTIVITY - - - -

INCOMPATIBILITIES
STRONG ACIDS

CONTINUED ON NEXT PAGE
MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S2127
NAME: SODIUM CARBONATE ANHYDROUS
ALUMINUM PROTECT FROM MOISTURE.
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS CARBON MONOXIDE, CARBON DIOXIDE

SECTION 11. ------------ TOXICOLOGICAL INFORMATION ------------

ACUTE EFFECTS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN.
CAUSES SEVERE IRRITATION.
HIGH CONCENTRATIONS ARE EXTREMELY DESTRUCTIVE TO TISSUES OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES AND SKIN.
SYMPTOMS OF EXPOSURE MAY INCLUDE BURNING SENSATION, COUGHING, WHEEZING, LARYNGITIS, SHORTNESS OF BREATH, HEADACHE, NAUSEA AND VOMITING.
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTCES #: VZ4050000 SODIUM CARBONATE (2:1)

IRRITATION DATA
SKN-RBT 500 MG/24H MLD 28ZP4K 7.72
EYE-RBT 100 MG/24H MOD 28ZP4K 8.72
EYE-RBT 100 MG/30S RINSE MLD TXCYAC 25.821.82
EYE-RBT 50 MG SEV GTPZAB 20(11) 55.76

TOXICITY DATA
ORL-RAT LD50: 4090 MG/KG 28ZP4K 8.72
IBL-RAT LC50: 2300 MG/M3/2H ENVRAL 31.138.83
ORL-MUS LD50: 6600 MG/KG GTPZAB 20(11) 55.76
IBL-MUS LC50: 1200 MG/M3/2H ENVRAL 31.138.83
IPR-MUS LD50: 117 MG/KG COREAF 257.791.63
SCU-MUS LD50: 2210 MG/KG RPTOAN 33.266.70
IBL-GPG LC50: 800 MG/M3/2H ENVRAL 31.138.83

TARGET ORGAN DATA
EFFECTS ON FERTILITY (PRE-IMPLANTATION MORTALITY)
ONLY SELECTED REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES (RTCES) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTCES FOR COMPLETE INFORMATION.

SECTION 12. ------------- ECOLOGICAL INFORMATION -------------

DATA NOT YET AVAILABLE.

SECTION 13. ------------ DISPOSAL CONSIDERATIONS ------------
MATERIAL SAFETY DATA SHEET

THIS MSDS IS FOR A COMPONENT OF CATALOG #: 520-30

CATALOG #: S2127
NAME: SODIUM CARBONATE ANHYDROUS

AQUEOUS SOLUTION DOWN THE DRAIN WITH PLENTY OF WATER. THE HYDROLYSIS AND NEUTRALIZATION REACTIONS MAY GENERATE HEAT AND FUMES WHICH CAN BE CONTROLLED BY THE RATE OF ADDITION. OBSERVE ALL FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS.

SECTION 14. - - - - - - - - TRANSPORT INFORMATION - - - - - - - - - -
CONTACT SIGMA CHEMICAL COMPANY FOR TRANSPORTATION INFORMATION.

SECTION 15. - - - - - - - - REGULATORY INFORMATION - - - - - - - - -

EUROPEAN INFORMATION
EC INDEX NO: 011-005-00-2
HARMFUL
R 36
IRRITATING TO EYES.
S 22
DO NOT BREATHE DUST.
S 26
IN CASE OF CONTACT WITH EYES, RINSE IMMEDIATELY WITH PLENTY OF WATER AND SEEK MEDICAL ADVICE.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=NAK
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION
FERRAC 54, 7740.89
NOHS 1974: HZD 68850; NIS 389; TNE 148455; NOS 193; TNE 1143671
NOES 1983: HZD 68850; TNE 97764; NOS 220; TNE 2001842; TFE 761463
EPA GENETOX PROGRAM 1988, INCONCLUSIVE; E COLI POLA WITHOUT S9
EPA TSCA SECTION 8(b) CHEMICAL INVENTORY
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, OCTOBER 1995

SECTION 16. - - - - - - - - OTHER INFORMATION - - - - - - - - - -

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