

THE WORLD'S FOREMOST MANUFACTURER OF RESEARCH  
BIOCHEMICALS AND DIAGNOSTIC REAGENTS

ATTN: SAFETY DIRECTOR  
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DATE 06/04/96  
CUST#: 2-097-94804  
PO#: UNF-64248

## M A T E R I A L   S A F E T Y   D A T A   S H E E T                      P A G E   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 \* CRYSTOL CARBONATE \* DISODIUM CARBONATE  
\* SODA ASH \* SOLVAY SODA \* TRONA \*

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

#### LABEL PRECAUTIONARY STATEMENTS

TOXIC (USA DEFINITION)  
HARMFUL (EUROPEAN DEFINITION)  
HARMFUL 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 FIREFIGHTING PROCEDURES

CONTINUED ON NEXT PAGE

#### BRANCH OFFICES AT:

SIGMA-ALDRICH VERTRIEBS GmbH Grünwalder Weg 39 82041 Deisenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 161 26100 Alcobendas (Madrid) España	SIGMA-ALDRICH s.r.o. Krizkova 27 186 00 Praha 8 Ceská Republika	SIGMA CHEMIE K. Cardijnplein, 8 B-2880 Bornem België/Belgique	SIGMA CHEMIE P.O. Box 260 CH-9470 Buchs Switzerland	SIGMA-ALDRICH QUIMICA, S.A. de C.V. Avenida Picacho Ajusco No. 130-303 Fraccionamiento Jardines en la Montaña 14210 Mexico, D.F.	SIGMA-ALDRICH CORPORATION New Delhi Location E-4/158, Safdarjung Enclave New Delhi - 110 029 India
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MATERIAL SAFETY DATA SHEET PAGE 2

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.  
FACE SHIELD (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

CH OFFICES AT:

Table listing Sigma Chemical Company offices in various countries including Aldrich, Chime, and Sigma-Aldrich Quimica, S.A. with addresses in locations like Madrid, Spain; Milan, Italy; and New Delhi, India.

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M A T E R I A L   S A F E T Y   D A T A   S H E E T                      P A G E   3

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.

RTECS #: VZ4050000  
 SODIUM CARBONATE (2:1)

IRRITATION DATA

SKN-RBT 500 MG/24H MLD	28ZPAK - 7,72
EYE-RBT 100 MG/24H MOD	28ZPAK - 8,72
EYE-RBT 100 MG/30S RINSE MLD	TXCYAC 23,281,82
EYE-RBT 50 MG SEV	GTPZAB 20(11),55,76

TOXICITY DATA

ORL-RAT LD50:4090 MG/KG	28ZPAK - 8,72
IHL-RAT LC50:2300 MG/M3/2H	ENVRAL 31,138,83
ORL-MUS LD50:6600 MG/KG	GTPZAB 20(11),55,76
IHL-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
IHL-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  
 (RTECS) DATA IS PRESENTED HERE. SEE ACTUAL ENTRY IN RTECS FOR  
 COMPLETE INFORMATION.

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

DATA NOT YET AVAILABLE.

SECTION 13. - - - - - DISPOSAL CONSIDERATIONS - - - - -

FOR SMALL QUANTITIES: CAUTIOUSLY ADD TO A LARGE STIRRED EXCESS OF  
 WATER. ADJUST THE PH TO NEUTRAL, SEPARATE ANY INSOLUBLE SOLIDS OR  
 LIQUIDS AND PACKAGE THEM FOR HAZARDOUS-WASTE DISPOSAL. FLUSH THE

CONTINUED ON NEXT PAGE

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GMA-ALDRICH RTRIEBS GmbH Waldweg 30 41 Daisenhofen Deutschland	SIGMA-ALDRICH QUIMICA, S.A. Apt. Correos 161 28100 Alcobendas (Madrid) España	SIGMA-ALDRICH S.r.l. Krizkova 27 186 00 Praha 8 Ceská Republika	SIGMA CHEMIE K. Cardijnplein, 8 B-2680 Bornem België/Belgique	SIGMA CHEMIE P.O. Box 260 CH-9470 Buchs Switzerland	SIGMA-ALDRICH QUIMICA, S.A. de C.V. Avenida Picacho Ajusco No. 130-303 Fraccionamiento Jardines en la Montaña 14210 Mexico, D.F.	SIGMA-ALDRICH CORPORATION 10342 New Delhi Location B-4/158, Saldarjung Enclave New Delhi - 110 029 India
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MATERIAL SAFETY DATA SHEET PAGE 4

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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=MAK

EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION

FEREAC 54,7740,89

NOHS 1974: HZD 68850; NIS 389; TNF 148455; NOS 193; TNE 1143671

NOES 1983: HZD 68850; NIS 385; TNF 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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WHITEWATER WI 53190

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Table with 6 columns listing branch offices for SIGMA-ALDRICH in various countries including Germany, Spain, Czech Republic, Belgium, Switzerland, Mexico, India, France, Italy, Australia, Brazil, England, Hungary, and South Korea.