

**SIGMA-ALDRICH**

SIGMA CHEMICAL COMPANY  
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DATE 07/23/96  
CUST#: 2-097-94804  
PO#: UNG-71236

M A T E R I A L S A F E T Y D A T A S H E E T PAGE 1

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

CATALOG #: B3375  
NAME: BENZOIC ACID SODIUM CRYSTALLINE

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

CAS #: 532-32-1  
MF: C7H5NAO2  
EC NO: 208-534-8

SYNONYMS  
ANTIMOL \* BENZOAN SODNY (CZECH) \* BENZOATE OF SODA \* BENZOATE SODIUM \*  
BENZOESAEURE (NA-SALZ) (GERMAN) \* SOBENATE \* SODIUM BENZOATE \*  
SODIUM BENZOIC ACID \*

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

LABEL PRECAUTIONARY STATEMENTS  
HARMFUL  
HARMFUL IF SWALLOWED.  
WEAR SUITABLE PROTECTIVE CLOTHING.

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

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH COPIOUS AMOUNTS OF WATER FOR AT LEAST 15 MINUTES.  
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH SOAP AND COPIOUS AMOUNTS OF WATER.  
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.

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

EXTINGUISHING MEDIA  
WATER SPRAY.  
CARBON DIOXIDE, DRY CHEMICAL POWDER OR APPROPRIATE FOAM.  
SPECIAL FIREFIGHTING PROCEDURES  
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- - - - -

WEAR RESPIRATOR, CHEMICAL SAFETY GOGGLES, RUBBER BOOTS AND HEAVY

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RUBBER GLOVES.  
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.

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

CHEMICAL SAFETY GOGGLES.  
NIOSH/MSHA-APPROVED RESPIRATOR.  
MECHANICAL EXHAUST REQUIRED.  
COMPATIBLE CHEMICAL-RESISTANT GLOVES.  
AVOID BREATHING DUST.  
AVOID CONTACT WITH EYES, SKIN AND CLOTHING.  
WASH THOROUGHLY AFTER HANDLING.  
HARMFUL SOLID.  
KEEP CONTAINER CLOSED.  
STORE IN A COOL DRY PLACE.

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

APPEARANCE AND ODOR  
WHITE POWDER

PHYSICAL PROPERTIES  
MELTING POINT: >300 C

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

INCOMPATIBILITIES  
STRONG OXIDIZING AGENTS  
PROTECT FROM MOISTURE.

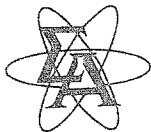
HAZARDOUS COMBUSTION OR DECOMPOSITION PRODUCTS  
TOXIC FUMES OF:  
CARBON MONOXIDE, CARBON DIOXIDE

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

ACUTE EFFECTS  
HARMFUL IF SWALLOWED.  
MAY BE HARMFUL IF INHALED.  
MAY BE HARMFUL IF ABSORBED THROUGH THE SKIN.  
MAY CAUSE IRRITATION.  
TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND  
TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.

RTECS #: DH6650000  
BENZOIC ACID, SODIUM SALT

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TOXICITY DATA

ORL-RAT LD50: 4070 MG/KG	JIHTAB 30, 63, 48
SCU-RAT LD50: 2 GM/KG	GISAAA 28(1), 45, 63
IVN-RAT LD50: 1714 MG/KG	JAPMA8 31, 253, 42
ORL-MUS LD50: 1600 MG/KG	GISAAA 51(1), 75, 86
IVN-MUS LD50: 1440 MG/KG	MECHAN 6, 290, 63
IMS-MUS LD50: 2306 MG/KG	JPETAB 117, 307, 56
ORL-DOG LD50: 2 GM/KG	FAONAU 53A, 34, 74
ORL-RBT LD50: 2 GM/KG	FAONAU 53A, 34, 74
SCU-RBT LD50: 2 GM/KG	FAONAU 53A, 34, 74

TARGET ORGAN DATA

BEHAVIORAL (TREMOR)  
BEHAVIORAL (CONVULSIONS OR EFFECT ON SEIZURE THRESHOLD)  
BEHAVIORAL (CHANGE IN MOTOR ACTIVITY)  
LUNGS, THORAX OR RESPIRATION (DYSPPNAE)  
EFFECTS ON EMBRYO OR FETUS (FETAL DEATH)  
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 -----

DISSOLVE OR MIX THE MATERIAL WITH A COMBUSTIBLE SOLVENT AND BURN IN A  
CHEMICAL INCINERATOR EQUIPPED WITH AN AFTERBURNER AND SCRUBBER.  
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

HARMFUL  
R 22  
HARMFUL IF SWALLOWED.  
S 36  
WEAR SUITABLE PROTECTIVE CLOTHING.

REVIEWS, STANDARDS, AND REGULATIONS

OEL=MAK  
EPA FIFRA 1988 PESTICIDE SUBJECT TO REGISTRATION OR RE-REGISTRATION  
FEREAC 54, 7740, 89  
NOHS 1974: HZD 80214; NIS 84; TNF 13289; NOS 69; TNE 92390  
NOES 1983: HZD X1192; NIS 2; TNF 31; NOS 2; TNE 430; TFE 288

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NAME: BENZOIC ACID SODIUM CRYSTALLINE

NOES 1983: HZD 80214; NIS 143; TNF 20457; NOS 125; TNE 533161; TFE  
199915  
EPA GENETOX PROGRAM 1988, NEGATIVE: TRP REVERSION  
EPA TSCA SECTION 8(B) CHEMICAL INVENTORY  
EPA TSCA TEST SUBMISSION (TSCATS) DATA BASE, APRIL 1996

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

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