

Supplier Information:  
Santa Fe Jewelery Supply  
1513 Fifth Street Santa Fe, NM 87505

**MATERIAL SAFETY DATA SHEET**  
Meeting OSHA Standard 29CFR §1910.1200 (g)



EFFECTIVE DATE: Revised October 6, 1987

**SECTION I — PRODUCT IDENTIFICATION**

PRODUCT TRADE NAME Anhydrous Borax  
CHEMICAL NAME AND SYNONYMS Borax CAS NO. 1330-43-4  
CHEMICAL FAMILY: Borate FORMULA:  $\text{Na}_2\text{B}_4\text{O}_7$   
HAZARD RATING: NFPA Health 0 Minimal hazard  
Reactivity 0  
Flammability 0

**SECTION II — HAZARDOUS INGREDIENTS**

Material or Component	%	Material or Component	%
None		<b>*WARNING:</b> This product contains trace amounts of arsenic, a chemical known to the State of California to cause cancer. Exposure to arsenic from this product will not exceed the Federal OSHA PEL unless used in a manner that produces extremely heavy airborne concentrations of borate material at levels many times allowable Federal OSHA limits.	

**SECTION III — PHYSICAL DATA**

Formula weight 201.27 Specific gravity 2.367 Heat of solution (evolved) 92 BTU/lb. Melting point 1367°F (742°C) Soluble in water - hydrates to the decahydrate	
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**24 HOUR EMERGENCY TELEPHONE NUMBER: (714) 774-2673**

CONTACT: J. C. Middleton, Manager, Product Safety

"The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein."

SECTION IV - HEALTH HAZARD INFORMATION

EFFECTS OF EXPOSURE (SYMPTOMS)

INGESTION:

ACUTE ORAL LD<sub>50</sub> 6.08 g/kg in rats (based on hydration to decahydrate. May cause nausea, vomiting, diarrhea in large amounts

EYE: (16CFR §1500.42) May be slightly irritating due to heat of hydration.

SKIN: May cause slight burning sensation due to heat of hydration.

ACUTE DERMAL LD<sub>50</sub> (16CFR §1500.40) Greater than 2 grams/kg in rabbits in hydrated form.

PRIMARY SKIN IRRITATION INDEX: (16CFR §1500.41)

CORROSIVE

NON CORROSIVE: - X  
When tested per 49CFR §173.240,  
anhydrous borax is not corrosive.

INHALATION - Nuisance dust. May cause transitory nasal and throat irritation.

ACUTE LC<sub>50</sub> - Not known.

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**EFFECTS OF OVEREXPOSURE**

**ACUTE OVEREXPOSURE/METHOD OF EXPOSURE/SYMPTOMS**

Eyes: Slight temporary irritation as with any dust.  
Skin: Slight burning sensation or moist skin due to heat of hydration.  
Ingestion: Nausea, vomiting, diarrhea.

**CHRONIC OVEREXPOSURE/METHOD OF EXPOSURE/SYMPTOMS**

Eyes: Transient irritation may occur.  
Skin: May cause slight, reversible erythema and/or rash.  
Ingestion: Nausea, vomiting, diarrhea. Prolonged exposure may result in erythema, macular rash, dizziness, CNS effects.

OSHA Permissible Exposure LIMIT (PEL) - Not listed 29CFR §1910 Subpart Z  
ACGIH Recommended Threshold Limit Value 1 mg/M<sup>3</sup>  
No data base.


**National Toxicology Program Annual Report on Carcinogens**

Year	1987	Listed	Not Listed	- X
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**International Agency for Research on Cancer (IARC)**

Monograph	Yes	
	No	- NO

OSHA CARCINOGEN - NO

**EMERGENCY AND FIRST AID PROCEDURES: **

- EYES - Flush with tepid water 15 minutes. Consult physician.
- SKIN - Wash thoroughly with soap and water.
- INHALATION - Remove to fresh air.

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INGESTION - Induce emesis. Drink large amounts of milk or water.

### NOTE TO PHYSICIAN

Gastric lavage with 5% sodium bicarbonate solution suggested for large amounts ingested. Saline cathartic. Force fluids. Ringer's solution or normal saline intravenously.

See notes Page 6.

### SECTION V - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) None FLAMMABLE LIMITS Lel / Uel

EXTINGUISHING MEDIA None required.

SPECIAL FIREFIGHTING PROCEDURES None

UNUSUAL FIRE AND EXPLOSION HAZARDS Product is fire retardant.

### SECTION VI - REACTIVITY DATA

STABILITY UNSTABLE CONDITIONS TO AVOID<sup>1</sup> Exposure to excessive moisture  
STABLE<sup>2</sup> X

INCOMPATIBILITY (materials to avoid) - None

HAZARDOUS DECOMPOSITION PRODUCTS<sup>3</sup> None

HAZARDOUS POLYMERIZATION MAY OCCUR WILL NOT OCCUR<sup>4</sup> X

CONDITIONS TO AVOID<sup>5</sup> - Product dissolves slowly in water with evolution of heat.

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SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Sweep or vacuum. Flush area with water.

WASTE DISPOSAL METHOD

Sanitary landfill. Not a hazardous waste.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Mask - Dust Foe No.88 (Mine Safety Appliance).  
Respirator - Comfo II with particulate  
VENTILATION LOCAL EXHAUST - X SPECIAL filler.

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES - Cloth or leather EYE PROTECTION- Polycarbonate ANSI Std  
.287-1-1968.060 lens.  
Type ENCON 160

OTHER PROTECTIVE EQUIPMENT

SECTION IX - SPECIAL PRECAUTIONS


PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Dry storage.

OTHER PRECAUTIONS

Retain package integrity.

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DATE: Oct. 6, 1987 SIGNATURE:   
Revised

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Section IV Note to Physician:

For further medical management call emergency number of Page 1.  
Medical consultation available.

Borates are not acute poisons and are readily dissipated through the urine (70% in 24 hours). No evidence of serious systemic toxicity has been demonstrated. Complimentary blood and urine analyses are available if desired. Call emergency number for further information.