

(57372-00)

33511-1004 *

Material Safety Data Sheet



KERR-MCGEE CHEMICAL CORPORATION
KERR-MCGEE CENTER ■ OKLAHOMA CITY OKLAHOMA 73125



decahydrate borax

For more detailed information on the hazards of this product, contact Regulations Compliance Department or Medical Services Department at the address above. Technical Information Bulletin is also available. For emergency information, telephone (405) 270-1313 any time.

PRODUCT IDENTIFICATION

Brand Name THREE ELEPHANT borax
 Chemical Name Sodium tetraborate decahydrate
 Common Name Borax, 10 mol
 Formula $Na_2B_4O_7 \cdot 10H_2O$
 DOT Proper
 Shipping Name Not applicable
 DOT Hazard
 Class Not applicable
 DOT I.D. Number Not applicable
 Reportable Quantity (RQ) Not applicable
 CAS Number 1303-96-4

PHYSICAL AND CHEMICAL PROPERTIES

State Granular solid
 Melting Point C 61
 Boiling Point C 1575 decomposes
 Color White
 Odor None
 Bulk Density, lb/cu.ft. 50 to 56
 Weight Per Gallon Not applicable
 Specific Gravity @ 20C 1.7
 Water Solubility % by wt. @ 20C 4.78
 Flash Point And Method Not applicable
 pH Not applicable

HAZARDOUS INGREDIENTS

Chemical Name	Common Name	CAS Number	Hazard
Sodium tetraborate decahydrate	Borax Plastico Moulage Hardener	1303-96-4	Irritant to eyes, nose, throat and lungs. Toxic if swallowed or absorbed through damaged skin.

PHYSICAL HAZARD INFORMATION

Explosive: No Upper Explosive Limit: Not applicable Lower Explosive Limit: Not applicable
 Pyrophoric: No
 Flammable: No Flammability Class: Not applicable
 Combustible: No Organic Peroxide: No
 Oxidizer: No Compressed Gas: No
 Reactivity: Stable at normal and expected temperatures and pressures. Gradually loses water of hydration in dry air or at elevated temperatures.
 Incompatibilities: Reacts violently with finely divided zirconium.
 Hazardous Decomposition: None.
 Conditions To Avoid: Heat sources and incompatible materials.

M-13516

04/28/95 14:28

Z 4158966379

DOUGLAS&STURGESS

P. 06

HEALTH INFORMATION

Precautionary Information: CAUTION! Causes irritation. Harmful if swallowed or absorbed through damaged skin.

Symptoms Of Exposure: Irritation of eyes, nose, and throat. Abdominal pain, nausea, vomiting, and diarrhea.

Restrictive Medical Conditions: Kidney and liver diseases and nerve disorders may be aggravated by exposure to this material.

PRIMARY ROUTE(S) OF ENTRY

Inhalation (breathing), eyes, damaged skin and ingestion (swallowing).

TOXICITY INFORMATION

Oral-Infant LDLo 1000 mg/kg; Oral-man LDLo 709 mg/kg; Oral-Sprague-Dawley rats LD₅₀, 4500 mg/kg males, 4980 mg/kg females; Oral-Long Evans rats LD₅₀, 6080 mg/kg males. Reproduction effects, including sterility, noted in experimental rats and dogs at feed levels of 70 g/kg; no effects at feed levels of 20 g/kg. Mutagenic effects noted in flies when subjected to an oral concentration of 714 ppm.

EXPOSURE LIMITS

OSHA: TWA is 10 mg/m³.
ACGIH: TLV-TWA 5 mg/m³.
Other: Not applicable.

2 of 4

D-5030

00120700 14129

4158968379

DOUBLER3431000000

Reported As A Potential Carcinogen Not Applicable National Toxicology Program
 Or Carcinogen OSHA International Agency For Research On Cancer

PRECAUTIONS FOR SAFE HANDLING AND USE

Avoid contact with eyes, skin and clothing.
 Avoid breathing dust.
 Use with adequate ventilation.
 Keep container closed.
 Store in a cool, dry place.
 Good housekeeping practices are important, this product contains trace impurities, such as arsenic, which if allowed to accumulate in equipment, may present a hazard.
 Wash thoroughly after handling.

SPILL AND LEAK PROCEDURES

Soil Release: Shovel or sweep up into a container and reclaim for salvage value or dispose of in accordance with federal, state and local regulations. If permitted, wash to an industrial sewer.

Water Spill: Collect by suction or dredge and dispose of as under Soil Release above.

Air Spill: Allow dust to settle, collect and dispose of as above for Soil Release.

Occupational Spill: Shovel or sweep up and dispose of as above for Soil Release.

RCRA Waste Number: Not applicable.

ENGINEERING CONTROLS AND PERSONAL PROTECTIVE EQUIPMENT

Ventilation: Use local exhaust and general dilution ventilation techniques. Personnel must use a personal respirator if dust concentration exceeds exposure limit.

Respirator: Use NIOSH/MSHA approved dust and mist respirator if dust concentration exceeds exposure limit and up to 50 mg/m³.

Eye Protection: Wear safety glasses or vented safety goggles.

Gloves: No special requirements. Wear ordinary work gloves.

Clothing: No special requirements. Wear easily washable clothing. Change daily. Wash clothing before reuse.

3 of 4

14:33

4158966379

DOUGLHERSTURGESS

Page

EMERGENCY PROCEDURES

Fire: Borax is not flammable and does not support combustion. Use firefighting media suitable for surrounding fire.

Spill or Leak: Shovel or sweep up and place in container for later disposal.

FIRST AID PROCEDURES

Ingestion: If swallowed, induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Call a physician.

Skin Contact: Flush with plenty of water and then wash thoroughly with soap or mild detergent and water.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Note To Physician: Chemical of exposure is borax.

DATE OF ISSUE: January, 1990

DATE REVISED: January, 1990

REPLACES: February, 1989