# Material Safety Information







June 1978

For more detailed information on the hazards of this product, contact Technical Service Department at the address above.

For emergency information, telephone 405 270-1313 any time.

Although we believe the information given here is correct, we recommend that you verify it with independent authoritative sources.

### NOMENCLATURE

Chemical name . . . Boric acid

Brand name..... THREE ELEPHANT® boric acid

Common name . . . Boric acid

Formula . . . . . . H<sub>3</sub>BO<sub>3</sub> or B(OH)<sub>3</sub>

Shipping names:

DOT..... Not applicable IATA..... Not applicable

CAS number . . . . 10044-35-3

PHYSICAL PROPERTIES

State . . . . . Granular solid

Melting point °C ..... 170.9°

Water solubility, % by wt @ 20°C . 4.8

pH of 1% solution . . . 5.1±0.2

## HAZARDOUS INGREDIENTS

	HAZARD	%	CAS NUMBER	COMPONENT
1				None
	. W			

## CHEMICAL REACTIVITY

Boric acid is a mild antiseptic commonly found in hospitals and first aid stations. In water solutions it acts as a weak monobasic acid.

## STABILITY

Stable at ordinary temperatures. When heated above  $100^{\circ}$ C it gradually loses water, changing to meta-boric acid, HBO<sub>2</sub>. On continued heating all water is lost and anhydrous oxide B<sub>2</sub>O<sub>3</sub> is formed.

FIRE HAZARD and FIRE FIGHTING PROCEDURES

Not flammable. Does not support combustion. Used as a fire retardant.

Kraft Chemical Company



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# RECOMMENDED SAFETY EQUIPMENT

Dust respirator if dust concentration is above TLV.

# CORROSIVITY TO MATERIALS OF CONSTRUCTION3

Carbon steel and aluminum are suitable materials for dry boric acid at ambient temperatures.

#### STORAGE

Bagged material should be stored in a dry place. Bulk material should be stored in such a manner so as to minimize moisture pickup from the air.

## CONTAINER DISPOSAL

No specific procedures.

## UNUSED MATERIAL and WASTE DISPOSAL

Dissolve in water and wash to an industrial sewer. Do not wash to open ditches as this material has herbicidal properties.

## HANDLING SPILLS

No specific procedures.

## REFERENCES

Dangerous Properties of Industrial Materials, 4th Ed., N. Irving Sax. VanNostrand Reinhold, New York, 1975.

Threshold Limit Values for Chemical Substances and Physical Agents for 1977 - ACGIH, P.O. Box 1937, Cincinnati. OII 45201.

Gorrosion Data Survey, 5th Ed., Norman E. Hamner, NACE, P.O. Box 1499, Houston, TX 77001.