

# MATERIAL SAFETY DATA SHEET

## EFFECTIVE DATE: JANUARY 1, 1996

### SECTION I

PRODUCT NAME: BT  
CHEMICAL FAMILY: OXIDES  
CHEMICAL NAME: FUSED ALUMINIUM OXIDE -BROWN  
CHEMICAL FORMULA:  $Al_2O_3$   
MANUFACTURERS NAME: ELFUSA GERAL DE ELETROFUSAO LTD.  
FACTORY ADDRESS: SAO JOAO DA BOA VISTA  
SAO PAULO BRAZIL  
USA OFFICE: 6730 - SANTA BARBARA COURT  
BALTIMORE, MARYLAND 21227

### IDENTIFICATION

BT  
OXIDES  
FUSED ALUMINIUM OXIDE -BROWN  
 $Al_2O_3$

### SECTION V.

THRESHOLD LIMIT VALUE  
EFFECTS OF OVER EXPOSURE  
EMERGENCY FIRST AID  
PROCEDURE

### HEALTH HAZARD DATA

10mg/m<sup>3</sup> AS TOTAL DUST  
NOT APPLICABLE  
NOT APPLICABLE  
NOTE: THIS MATERIAL IS A NON - TOXIC NUISANCE DUST.

### SECTION II.

APPEARANCE & ODOR: CRYSTALLINE PARTICLES; NO ODOR  
SPECIFIC GRAVITY ( $H_2O=1$ ): 4.0 g/cm<sup>3</sup>  
BOILING POINT: 6000 F  
VOLATILES (% BY WT.): NOT APPLICABLE  
WATER SOLUBILITY: NOT APPLICABLE

### PHYSICAL CHARACTERISTICS

### SECTION VI.

STABILITY  
HAZARDOUS POLYMERIZATION  
CONDITIONS TO AVOID  
INCOMPATIBILITY  
(MATERIALS TO AVOID)  
HAZARDOUS DECOMPOSITION  
PRODUCTS

### REACTIVITY DATA

STABLE  
WILL NOT OCCUR  
NOT APPLICABLE  
NONE  
NOT APPLICABLE

### SECTION III.

MATERIAL  
 $Al_2O_3$  96.16 %  
 $TiO_2$  2.58 %  
 $SiO_2$  0.49 %  
 $Fe_2O_3$  0.20 %  
MgO 0.30 %  
CaO 0.14 %  
 $Na_2O$  0.07 %  
 $K_2O$  0.06 %  
 $Fe_2O_3$  0.30 Max.

### CHEMICAL CHARACTERISTICS

### SECTION VII.

STEPS TO BE TAKEN IF  
MATERIAL IS RELEASED OR  
SPILLED  
WASTE DISPOSAL METHOD

### SPILL OR LEAK PROCEDURES

THIS MATERIAL IS INERT AND MAY BE HANDLED BY ORDINARY MEANS SUCH AS: BROOM, SHOVEL, VACUUM CLEANER, etc.  
DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

### SECTION VIII.

RESPIRATORY PROTECTION

### SPECIAL PROTECTION INFORMATION

IN CASES OF DUST BUILD-UP IN EXCESS OF THE "TLV" AN "NIOSH" APPROVED AIR RESPIRATOR IS RECOMMENDED.

### SECTION IV.

FLASH POINT : NOT APPLICABLE  
FLAMMABILITY LIMITS : NOT APPLICABLE  
EXTINGUISHING MEDIA : NOT APPLICABLE  
UNUSUAL FIRE & EXPLOSION :  
HAZARDS : NOT APPLICABLE  
SPECIAL FIRE FIGHTING :  
PROCEDURES : NOT APPLICABLE

### FIRE AND EXPLOSION DATA

### SECTION IX.

PRECAUTIONS TO BE TAKEN IN  
HANDLING AND STORING  
OTHER PRECAUTIONS

### SPECIAL PRECAUTIONS

USE ADEQUATE VENTILATION SO AS TO AVOID EXCEEDING "TLV"  
NOT APPLICABLE

THIS IS ESSENTIALLY SIMILAR TO FORM OSHA 20