



MATERIAL SAFETY DATA SHEET

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200 Standard must be consulted
for specific requirements

U.S. DEPARTMENT OF LABOR

Occupational Safety and Health Administration
(Non-Mandatory Form)

Form Approved - OMB No. 1218-0072

Note: Blank spaces are not permitted. Mark all spaces not applicable or no information

IDENTITY (As used on Label and List) ---

ALUMINUM BRITE

Class 8, UN-1830, PGII

SECTION I

MANUFACTURER'S NAME--- TORNADO PRODUCTS CO.
ADDRESS--- 302 West MacCorkle Avenue
St. Albans, WV 25177

EMERGENCY & INFORMATION TELEPHONE NUMBER:

1-800-881-5572 or (304) 727-5572

DATE PREPARED--- July 26, 2002

Signature of Preparer (Optional) _____

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS(Specific Chemical Identity; Common Names)	OSHA PEL	ACGIH-TLV	OTHER LIMITS	CAS #
HYDROFLUORIC ACID 70%	NI	NI	NI	7665-39-3
SULFURIC ACID	NI	NI	NI	7664-93-9
SURFACTANT PROPRIETY-NEUTRAL PH	NI	NI	NI	NA
MURIATIC ACID 20 DEGREES	NI	NI	NI	7647-01-0
GLUCONIC ACID-50%	NI	NI	NI	526-95-4
ETHYLENE GLYCOLMONO BUTYL ETHER	25 ppm	25 ppm	NI	111-76-2
CORROSIVE PH 3				

HMIS INDEX (HAZARD INDEX: 0-Minimal 1-Slight 2-Moderate 3-Serious 4-Severe)

HEALTH--- 3 FLAMMABILITY--- 0 REACTIVITY--- 1 PERSONAL PROTECTION--- 1

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT--- 190 degrees F.	APPEARANCE AND ODOR--- Dark brown--not distinct odor
MELTING POINT--- None	VAPOR PRESSURE--- NI
SOLUBILITY IN WATER--- COMPLETE	VAPOR DENSITY (air-1)--- NI
SPECIFIC GRAVITY (H2O)--- 1.4	VAPORATION RATE--- NI

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)---None AUTO IGNITION TEMPERATURE--- None

FLAMMABILITY LIMITS IN AIR % BY VOLUME--- None

LEL--- NI UEL---NI

EXTINGUISHING MEDIA--- WATER FOG, CO2 OR DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES--- WEAR PROTECTIVE CLOTHING-SELF CONTAINED BREATHING APPARATUS

UNUSUAL FIRE AND EXPLOSION HAZARDS--- None

SECTION V - REACTIVITY DATA

STABILITY--- STABLE X UNSTABLE ___ **CONDITIONS TO AVOID**--- ALKALINE MATERIAL CAUSTIC BASE

INCOMPATIBILITY (Materials to Avoid)--- HIGHLY ALKALINE MATERIAL-STRONG OXIDIZER

HAZARDOUS DECOMPOSITION OR BY PRODUCTS--- NONE

HAZARDOUS POLYMERIZATION--- MAY OCCUR ___ **WILL NOT OCCUR** X **CONDITIONS TO AVOID**---SAME AS ABOVE

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY:

▶ **INHALATION?**--- USE ONLY NIDSH EQUIPMENT-CAN CAUSE DAMAGE TO NASAL & RESPIRATORY PASSAGE

▶ **INGESTION?**--- RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANE AND DEEP TISSUE. DO NOT INDUCE VOMITING, WILL CAUSE DAMAGE TO MUCOUS MEMBRANE.

▶ **SKIN?**--- Wash Hands Copious Amount of Water, DO NOT USE WITHOUT PROTECTIVE EQUIPMENT (GLOVES, GOGGLES, ETC.)-CORROSIVE

▶ **EYES?**--- CAUSES VERY RAPID SEVERE DAMAGE

HEALTH HAZARDS (Acute and Chronic)--- **SEE ABOVE**

CARCINOGENICITY-NI

NTP?--- NI

IARC MONOGRAPHS?--- NI

OSHA REGULATED?---NI

SIGNS AND SYMPTOMS OF EXPOSURE--- THROAT, EYES, IRRITATION-- REMOVE TO FRESH AIR

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE--Hands will hurt, Fingernails will turn colors if used undiluted for several hours.

EMERGENCY AND FIRST AID PROCEDURES--- Seek medical assistance for further treatment, observation & support, if necessary.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED---Adjust PH with Caustic or other Alkaline Material. Use Lime or Soda Ash.

WATER DISPOSAL METHOD--- RETURN TO VENDOR OR APPROVED WASTE LAND FILL, FEDERAL OR LOCAL AUTHORITIES.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING--- KEEP FROM FREEZING-STORE INDOORS AVOID STORING TO CAUSTIC BASE MATERIALS.

OTHER PRECAUTIONS--- DO NOT, UNDER ANY CIRCUMSTANCE, SIPHON WITH HOSE--VERY DANGEROUS

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): LOCAL EXHAUST X MECHANICAL ___ (OR) SPECIAL ___

OTHER (Specify)-- USE WITH ADEQUATE VENTILATION

PROTECTIVE GLOVES--- NEOPRENE GLOVES

EYE PROTECTION--- GOGGLES OR SAFETY GLASSES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT---RUBBER SUITS OR APRONS, IF NECESSARY

WORK/HYGIENIC PRACTICES--- DO NOT ATOMIZE CONCENTRATED OR DILUTED