

## 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) ---

MK-3-4 1/2-C DEGREASER—Class 8, UN-1814, 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--- January 3, 2005

Signature of Preparer (Optional) \_\_\_\_\_

### SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS(Specific Chemical Identity; Common Names)	OSHA PEL	ACGIH-TLV	OTHER LIMITS	CAS #
POTASSIUM HYDROXIDE	NI	NI	NI	1310-58-2
ETHYLENE GLYCOL MONO BUTYL ETHER	NI	NI	NI	111-76-2
GLUCONIC ACID	NI	NI	NI	636-95-4
SODIUM METASILICATE	NI	NI	NI	6834-92-0
SODIUM ZYLENE SULFONATE	NI	NI	NI	1300-72-7
SURFACTANT BLEND BASE CORROSIVE	PROPRIETARY UN 1814			

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

HEALTH--- 3 FLAMMABILITY--- 0 REACTIVITY--- 0 PERSONAL PROTECTION--- Goggles, gloves, chemical apron, respirator if needed.  
SEE SECTIONS VII & VIII FOR SPECIFIC DETAILS.

### SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT--- 170°F.	APPEARANCE AND ODOR--- GREEN-BUTYL CELLOSOLVE
MELTING POINT--- NI	VAPOR PRESSURE---NI
SOLUBILITY IN WATER--- COMPLETE	VAPOR DENSITY (air-1)---NI
SPECIFIC GRAVITY (H2O)--- 1.14	VAPORATION RATE---NI

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used)--- NONE AUTO IGNITION TEMPERATURE---NI

FLAMMABILITY LIMITS IN AIR % BY VOLUME--- NI

LEL---NI UEL---NI

EXTINGUISHING MEDIA--- WATER

SPECIAL FIRE FIGHTING PROCEDURES--- REGULAR PROCEDURE, NO SPECIAL EQUIPMENT

UNUSUAL FIRE AND EXPLOSION HAZARDS--- NONE

**SECTION V - REACTIVITY DATA**

STABILITY--- STABLE  X  UNSTABLE \_\_\_ CONDITIONS TO AVOID--- NONE

INCOMPATIBILITY (Materials to Avoid)--- NONE

HAZARDOUS DECOMPOSITION OR BY PRODUCTS--- NONE

HAZARDOUS POLYMERIZATION--- MAY OCCUR \_\_\_ WILL NOT OCCUR  X  CONDITIONS TO AVOID---NONE

**SECTION VI - HEALTH HAZARD DATA**

ROUTES OF ENTRY AND HEALTH HAZARDS FOR EACH (Acute and Chronic):

▶ INHALATION?--- DIZZINESS, NOSE & THROAT IRRITATION

▶ INGESTION?--- WILL BLISTER MOUTH AND THROAT

▶ SKIN?--- CAN DRY OR BURN SENSITIVE SKIN

▶ EYES?--- WILL BURN AND IRRITATE

CARCINOGENICITY- NI

NTP?--- NI

IARC MONOGRAPHS?--- NI

OSHA REGULATED?---

SIGNS AND SYMPTOMS OF EXPOSURE--- DIZZINESS, IRRITATION OF NOSE

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE--NONE IF USED UNDER NORMAL CONDITION.  
DO NOT ATOMIZE WITH AIR PRESSURE, USE GARDEN SPRAYER.

EMERGENCY AND FIRST AID PROCEDURES--- REMOVE TO FRESH AIR. IF IN EYES, FLUSH WITH WATER 15 MINUTES,  
FOLLOW WITH 5% BORIC ACID SOLUTION.  
IF INGESTED, DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.

**SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED---FLUSH WITH WATER OR DEFOAMER. NEUTRALIZE WITH  
ALUM OR PHOSPHORIC ACID.

WATER DISPOSAL METHOD---NI

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING---KEEP FROM FREEZING-TEMPERATURE EXCEEDING 100 DEG. F. WILL  
CAUSE SEPARATION OF MATERIAL IN 48 HOURS. STORE INDOORS.

OTHER PRECAUTIONS---NONE

**SECTION VIII - CONTROL MEASURES**

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

OTHER (Specify)--ENCLOSED ROOM: USE RESPIRATOR OR MASK

PROTECTIVE GLOVES--- RUBBER GLOVES

EYE PROTECTION---GOGGLES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT--- WEAR GLOVES. PROTECTIVE CLOTHING-OSHA REGULATED

WORK/HYGIENIC PRACTICES---FOLLOW LABEL DIRECTION OR DESCRIPTION SHEET OR CALL EMERGENCY NUMBER.