



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 (NA)
Or no information (NI)

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

TORNADO-50 Bio-Degradable
Class 8, UN-1814, PGII

SECTION I

MANUFACTURER'S NAME--- TORNADO PRODUCTS CO.

ADDRESS--- 701 5th Ave.
St. Albans, WV 25177

EMERGENCY & INFORMATION TELEPHONE NUMBER:

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

DATE PREPARED--- October 1, 2012

Signature of Preparer (Optional) _____

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS (Specific Chemical Identity; Common Names)	OSHA PEL	ACGIH-TLV	OTHER LIMITS	%(optional)	CAS #
SODIUM XYLENE SULFONATE SURFACTANTS ARE PROPRIETARY	NA	NA	NA		1300-72-7
ETHYLENE GLYCOLMONO BUTYL ETHER	NA	22 PPM	NA		111-76-2
CHELATING AGENT	NA	NA	NA		64-02-8
GLUCONIC ACID	NA	NA	NA		526-95-4
SODIUM METASILICATE	NA	NA	NA		6834-92-0
POTASSIUM HYDROXIDE	NA	2	NA		1310-58-30

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--- 180°F
MELTING POINT--- NI
SOLUBILITY IN WATER--- Complete
SPECIFIC GRAVITY (H₂O) --- 1.2
PH LEVEL--- 14

APPEARANCE AND ODOR--- Green Yellow-Butyl Cellosolve
VAPOR PRESSURE--- NI
VAPOR DENSITY (air-1) --- NI
VAPORATION RATE--- NI
%CAUSTIC--- between .04 and .06%

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used) --- None

AUTO IGNITION TEMPERATURE--- NI

FLAMMABILITY LIMITS IN AIR % BY VOLUME---None

LEL--- NI UEL--- NI

EXTINGUISHING MEDIA--- Water

SPECIAL FIRE FIGHTING PROCEDURES--- None

UNUSUAL FIRE AND EXPLOSION HAZARDS--- None

SECTION V - REACTIVITY DATA

STABILITY--- STABLE X UNSTABLE CONDITIONS TO AVOID--- HEAT WILL STRATIFY PRODUCT

INCOMPATIBILITY (Materials to Avoid) --- ACIDS

HAZARDOUS DECOMPOSITION OR BY PRODUCTS--- NI

HAZARDOUS POLYMERIZATION--- MAY OCCUR WILL NOT OCCUR X CONDITIONS TO AVOID--- ACIDS

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY (specify how in each of the following):

▶ INHALATION? --- SYMPTOMS: IRRITATION TO NOSE & THROAT
FIRST AID:

▶ INGESTION? --- CAN INJURE THROAT & BURN ESOPHAGUS

▶ SKIN? --- WILL CAUSE REDNESS

▶ EYES? --- WILL CAUSE REDNESS, WATERY

HEALTH HAZARDS (Acute and Chronic) --- Ingested - If conscious follow with water. **Do not induce vomiting. Don't give anything by mouth to an unconscious or convulsing person. Treat as a caustic burn.**

CARCINOGENICITY? --- None IARC MONOGRAPHS? ---NI OSHA REGULATED? -- NI

SIGNS AND SYMPTOMS OF EXPOSURE---Enclosed room will cause dizziness, throat irritation, **Do Not Atomize with Air Pressure.**

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE--Wash hands and use shower if clothes are completely saturated.

EMERGENCY AND FIRST AID PROCEDURES---If in eyes, flush with water for 15 minutes. Treat with Boric Acid solution (see physician).

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED---Neutralize with alum or Phos Acid. Flush to sewer using defoamer if necessary.

WATER DISPOSAL METHOD--- Return to vendor or to a regulated land fill.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING---Keep from freezing and store indoors.

OTHER PRECAUTIONS--- If product should separate from heat, add 10% water & stir with any type wooden handle.

SECTION VIII - CONTROL MEASURES

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

OTHER (Specify)--

PROTECTIVE GLOVES--- Rubber gloves EYE PROTECTION--- Goggles

OTHER PROTECTIVE CLOTHING OR EQUIPMENT--- None

WORK/HYGIENIC PRACTICES--- Follow Directions On Label.