

MATERIAL SAFETY DATA

MSDS No. 4500-01

Date: 7/31/03

Supercedes: 8/2/00

PRODUCT IDENTIFICATION

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| PRODUCT NAME: | TEC Activator Component |
| SYNONYMS: | Activator-high intensity; Activator-Baton |
| CHEMICAL FAMILY: | Mixture |
| MOLECULAR FORMULA: | Mixture |
| MOLECULAR WGT: | Mixture |

WARNING

WARNING! FLAMMABLE LIQUID AND VAPOR CAUSES EYE IRRITATION

OSHA REGULATED COMPONENTS

| COMPONENT | CAS. NO. | % | TWA/CEILING | REFERENCE |
|-----------------------|-----------|------|-------------------------|------------|
| tert-Butyl alcohol | 75-65-0 | 8-12 | 100 ppm 150 ppm STEL | OSHA/ACGIH |
| Hydrogen peroxide 70% | 7722-84-1 | 4-5 | 1 ppm | OSHA/ACGIH |

NFPA HAZARD RATING

- 3 FIRE:** Liquids and solids that can be ignited under almost all ambient temperature conditions.
- 2 HEALTH:** Materials that on intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical treatment is given.
- 0 REACTIVITY:** Materials that in themselves are normally stable, even under fire exposure conditions, and which are not reactive with water.

HEALTH HAZARD INFORMATION

The acute oral (rat) and dermal (rabbit) LD50 values are greater than 5 g/kg and greater than 10 ml/kg, respectively. Direct contact with this material can cause moderate eye irritation.

FIRST AID

In case of eye contact, immediately irrigate with plenty of water for 15 minutes. Obtain medical attention if irritation persists.

EXPOSURE CONTROL METHODS

Where this material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure. Food, beverages, and tobacco products should not be carried, stored, or consumed where this material is in use. Before eating, drinking, or smoking, wash face and hands with soap and water. Avoid skin contact. Protective clothing such as impervious gloves, apron, workpants, long sleeve work shirt, or disposable coveralls are recommended to prevent skin contact. For operations where eye or face contact can occur, wear protection such as chemical splash proof goggles or face shield. Eyewash equipment and safety shower should be provided in areas of potential exposure. Where exposures are below the Permissible Exposure Limit (PEL), no respiratory protection is required. Where exposures exceed the PEL, use respirator approved by NIOSH for the material and level of exposure. See "GUIDE TO INDUSTRIAL RESPIRATORY PROTECTION" (NIOSH).

**FIRE AND
EXPLOSION
HAZARD
INFORMATION**

FLASH POINT: 83°F (28°C)
METHOD: Closed Cup

FLAMMABLE LIMITS
(% BY VOL.): 2.4 Lower, 8.0 Upper (Values for tert-Butyl alcohol)

AUTO IGNITION TEMP.: >900°F (>482°C) (Values for tert-Butyl alcohol)

DECOMPOSITION TEMP.: >167°F (>75°C)

FIRE FIGHTING: Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective. Use water to keep containers cool. Wear self-contained positive pressure breathing apparatus and full fire fighting protective clothing. See Exposure Control Methods for special protective clothing.

REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: None known

POLYMERIZATION: Will Not Occur
CONDITION TO AVOID: None known

INCOMPATIBLE
MATERIALS: Strong oxidizing and reducing agents.

HAZARDOUS
DECOMPOSITION
PRODUCTS: Thermal decomposition or combustion may produce carbon monoxide and/or carbon dioxide.

**PHYSICAL
PROPERTIES**

APPEARANCE
AND ODOR: Water-white; aromatic

BOILING POINT: Alcohol fraction boils @ - 181°F; 83°C

MELTING POINT: Not Available

VAPOR PRESSURE: Not Available

SPECIFIC GRAVITY: 1.14

VAPOR DENSITY: 2.55 (air = 1) (Value for tert-Butyl alcohol)

% VOLATILE (BY VOL.): 23%

pH: Neutral

SATURATION IN AIR
(BY VOL.): Not Available

EVAPORATION RATE: Not Available

SOLUBILITY IN WATER: Partial

| | | |
|---------------------------------|--|---|
| SPILL OR LEAK PROCEDURES | STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: | Where exposure level is not known, wear NIOSH approved, respirator suitable for level of exposure. In addition to the protective clothing/equipment in Exposure Control Methods, wear impervious boots. Cover spills with some inert absorbent material; sweep up and place in waste disposal container. Flush area with water, remove sources of ignition. |
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WASTE DISPOSAL: Disposal must be made in accordance with applicable governmental regulations.

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| SPECIAL PRECAUTIONS | HANDLING AND STORAGE/OTHER: | Areas containing this material should have fire-safe practices and electrical equipment in accordance with Electrical and Fire Protection codes (NFPA-30) governing Class 1 Flammable Liquids. |
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| D.O.T. SHIPPING INFORMATION | PROPER SHIPPING NAME: | FLAMMABLE LIQUID N.O.S. |
| | HAZARD CLASS: | FLAMMABLE LIQUID, CLASS 3, PACKAGE III |
| | UN/NA: | UN 1993 |
| | D.O.T. LABEL REQUIRED: | Flammable Liquid |

TSCA INFORMATION This product is manufactured in compliance with all provisions of the Toxic Substances Control Act, 15 U.S.C.

ENVIRONMENTAL INFORMATION: The following components are defined as toxic chemicals subject to reporting requirements of Section 313 of Title III and of 40 CFR 372 or subject to other EPA regulations.

SARA TITLE III

| COMPONENT | CAS NO. | % | TPQ (lbs) | RQ (lbs) | S313 | RCRA | TSCA | 12B |
|--------------------|---------|-------|-----------|----------|------|------|------|-----|
| tert-Butyl alcohol | 75-65-0 | 12-15 | NONE | NONE | YES | NONE | NO | |

PRODUCT CLASSIFICATION UNDER SECTION 311 OF SARA

ACUTE (Y) CHRONIC (N) FIRE (Y) REACTIVE (N) PRESSURE (N)

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EMERGENCY CONTACT INFORMATION

CHEMICAL EXPOSURE 800-228-5635 Ext. 162

DOMESTIC TRANSPORTATION AND SPILL EMERGENCY 800-424-9300

INTERNATIONAL TRANSPORTATION AND SPILL EMERGENCY 703-527-3887