

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

## IDENTITY AND MANUFACTURER'S INFORMATION

**NFPA Rating:** Health-1; Flammability-0; Reactivity-0; Special- -  
**Manufacturer's Name:** KESS CHEMICALS, INC.  
**Address:** 8613 N.W. 66 STREET  
MIAMI, FL. 33166

**Date Prepared:** 08/22/92  
**Information Calls:** (305) 592-1850

**HMIS Rating:** Health-1; Flammability-0; Reactivity-0; Personal Protection-B  
**DOT Hazard Classification:** Non-Hazardous  
**Identity** (trade name as used on label):  
**TITAN**

NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA

## SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION

**COMPONENTS-CHEMICAL NAMES AND COMMON NAMES**  
(Hazardous Components 1% or greater; Carcinogens 0.1% or greater)  
**BUTYL CELLOSOLVE**

CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
111-76-2	Yes	50	25	d

## SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

**Boiling Point:** >212°F  
**Vapor Pressure:** PSIG @ 70°F (Aerosols): N/A  
**Vapor Density** (Air = 1): <1  
**Solubility in Water:** Completely  
**Appearance and Odor:** Clear, red liquid with butyl odor.

**Specific Gravity** (H<sub>2</sub>O=1): 1.02  
**Vapor Pressure** (Non-Aerosols)(mm Hg and Temperature): 18mm/Hg@70°F  
**Evaporation Rate** ( water = 1): >1.0  
**Water Reactive:** No

## SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

**FLAMMABILITY** as per USA FLAME PROJECTION TEST  
(aerosols) N/A  
**FLASH POINT AND METHOD USED** (non-aerosols): None  
**SPECIAL FIRE FIGHTING PROCEDURES:** None identified.  
**Unusual Fire & Explosion Hazards:** None identified.

**Auto Ignition Temperature** Flammability Limits in Air by % in Volume:  
N/A % LEL: N/A % UEL: N/A  
**EXTINGUISHER MEDIA:** Product is not considered combustible.

## SECTION 4 - REACTIVITY HAZARD DATA

**STABILITY** [ X ] STABLE [ ] UNSTABLE  
**Incompatibility** (Mat. to avoid): Strong acids, strong oxidizers.  
**Hazardous Decomposition Products:** Oxides of carbon, nitrogen, phosphorus, unidentified organic compounds.

**HAZARDOUS POLYMERIZATION** [ ] WILL [ X ] WILL NOT OCCUR  
**Conditions to Avoid:** None

## SECTION 5 - HEALTH HAZARD DATA

**PRIMARY ROUTES OF ENTRY:** [ ] INHALATION [ X ] INGESTION [ ] SKIN ABSORPTION [ X ] EYE [ ] NOT HAZARDOUS

### ACUTE EFFECTS

**Inhalation:** Inhalation of spray or mist is severely irritating to respiratory tract & mucous membranes. Prolonged contact may cause tissue damage or destruction.  
**Eye Contact:** Severely irritating. Prolonged contact may cause tissue damage or destruction.  
**Skin Contact:** Irritating. Prolonged contact may cause dermatitis.

**Ingestion:** Severely irritating.

**CHRONIC EFFECTS:** Repeated episodes of tissue damage may cause scar tissue accumulations.

**Medical Conditions Generally Aggravated by Exposure:** Pre-existing irritation may be aggravated by contact.

### EMERGENCY FIRST AID PROCEDURES

**Eye Contact:** Flush with water for 15 minutes. If irritation persists, get medical attention.

**Skin Contact:** Remove contaminated clothing. Wash with soap and water.

**Inhalation:** Remove to fresh air. If irritation persists or other symptoms develop, get medical attention.

**Ingestion: DO NOT INDUCE VOMITING.** Give large quantities of water followed by citrus juice or one ounce of vinegar in water. Follow with milk or olive oil. Get immediate medical attention.

## SECTION 6 - CONTROL AND PROTECTIVE MEASURES

**Respiratory Protection (specify type):** None required.

**Protective Gloves:** Rubber, if desired.

**Eye Protection:** Goggles or safety glasses.

**Ventilation Requirements:** None required.

**Other Protective Clothing & Equipment:** Boots & splash apron, if desired.

**Hygienic Work Practices:** Do not eat, drink or smoke in work area. Wash hands after handling. Remove contaminated clothing.

## SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

**Steps To Be Taken If Material Is Spilled Or Released:** Contain spill & dilute with clear water. Large spills should be absorbed on inert material for deep burial.

**Waste Disposal Methods:** Dispose of in accordance with all local, state and federal regulations.

**Precautions To Be Taken In Handling & Storage:** Store in original shipping containers. Keep closed when not in use. Shelf life 1 year. Protect from extreme heat and cold.

**Other Precautions &/or Special Hazards:** KEEP OUT OF REACH OF CHILDREN. Read & follow label directions.

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only