

**BEST Inc**

**MATERIAL SAFETY DATA SHEET Conformal Coating Remover**

**SECTION I - NAME & PRODUCT**

ADDRESS: BEST Inc      CONTACT: info@solder.net

3603 Edison Place

Rolling Meadows IL 60008

TRADE NAME, COMMON NAME OR SPECIFICATION: Trace Technologies Conformal Coating Remover

EMERGENCY TELEPHONE: 847-797-9250

CHEMICAL FAMILY OR PRODUCT TYPE: Tetrahydrofuran / BHT

APPROVED BY: Bob Wettermann    August 6, 2013

**SECTION II – COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	Content	CAS	EINECS
Tetrahydrofuran	> 99	109-99-9	203-726-8
BHT	< 0.1	128-37-0	

**EEC LABEL SYMBOL AND CLASSIFICATION**



R11 - Highly flammable.

EEC Highly flammable - "F"

R19 - May form explosive peroxides.



R23/25 - Toxic by inhalation and if swallowed.

EEC Toxic - "T"

### SECTION III - PHYSICAL AND CHEMICAL DATA

BOILING POINT: 65°C (149°F)    MELTING POINT: NA    SPECIFIC GRAVITY (BULK): 0.886 to .891 at 25°C

VAPOR PRESSURE: 130 mmHg at 20°C    PERCENT VOLATILE BY VOL.: 100 at 20°C (68°F)

VAPOR DENSITY: 2.5 (Air=1)    EVAPORATION RATE: NA    SOLUBILITY IN WATER: Negligible

SOLUBILITY IN ALCOHOL: NA    SOLUBILITY IN OTHER SOLVENTS: NA

APPEARANCE & ODOR: Aromatic odor, clear and colorless

### SECTION IV - FIRE & EXPLOSION HAZARD DATA

FLASH POINT: -14.4°C (6°F) TAG CC    METHOD USED: Water spray    FLAMMABLE LIMITS: 2.0 to 11.8

GENERAL HAZARD: Flammable Liquid. Can release vapors that form explosive mixtures at temperatures at or above the flash point.

EXTINGUISHING MEDIA: Water, foam, dry chemical, carbon dioxide

SPECIAL FIRE FIGHTING PROCEDURES: Use water spray to keep fire-exposed containers cool and to knock down

HAZARDOUS COMBUSTION PRODUCTS: Smoke, fumes and oxides of carbon

EXPLOSION HAZARDS: Vapors may form explosive mixture with air.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained breathing apparatus pressure-demand, (MSHA/NIOSH approved or equivalent) and full protective gear.

HAZARDOUS DECOMPOSITION PRODUCTS: None Expected.

### SECTION V - HEALTH HAZARD DATA

SKIN: Immediately flush skin with plenty of water. Remove clothing. Get medical attention immediately. Wash clothing separately before reuse.

INGESTION: If swallowed, gently wipe or rinse the inside of the mouth with water. DO NOT induce vomiting. Sips of water may be given if person is fully conscious. Never give anything by mouth to an unconscious or convulsing person. Immediately contact a poison control center, emergency room or physician as further treatment may be necessary.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Seek immediate medical attention.

INHALATION: Breathing dust may result in irritation to the throat & nose.

INGESTION: All accidental ingestion of dust or slurry may cause irritation of the digestive tract.

SKIN: Not absorbed through the skin. Contact with broken skin may result in redness, burning, swelling & skin damage.

EYE: Dust may irritate eyes. Contact with dust or slurry may be abrasive & irritating causing tearing & redness.

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

#### PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles) and a face shield.

SKIN: The glove(s) listed below may provide protection against permeation. Gloves of other chemically resistant materials may not provide adequate protection. Viton, Solvex, Butyl, Buna, Neoprene.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

WORK HYGIENIC PRACTICES: Wash hands before eating and wash before reuse.

OTHER USE PRECAUTIONS: Emergency shower and eyewash facility should be in close proximity.

#### TOXICOLOGICAL INFORMATION

INGREDIENT(S) ORAL LD 50 (rat) DERMAL LD 50 (rabbit) INHALATION LC 50 (rat)

Tetrahydrofuran 1650 - mg/kg 21000 - ppm

#### ACUTE

EYES: Moderately to severely irritating

DERMAL LD50: Mildly to moderately irritating.

ORAL LD50: 2500 mg/kg (rat)

INHALATION LC50: 21000 ppm, 3-hour

EYE EFFECTS: Mixture is a moderate eye irritant.

SKIN EFFECTS: Causes irritation to skin.

CARCINOGENICITY:

IARC: NOT listed

NTP: NOT listed

OSHA: NOT listed

REPRODUCTIVE EFFECTS: Not Established

TERATOGENIC EFFECTS: Test results indicate this compound/mixture is not teratogenic.

## **SECTION VI - SPILL, LEAK & DISPOSAL**

SMALL SPILL: Contain spill with dike to prevent entry into sewers.

LARGE SPILL: If this material is released into a work area, evacuate the area immediately.

GENERAL PROCEDURES: Dike area to contain spill. Take precautions as necessary to prevent contamination of ground and surface waters. Recover spilled material on adsorbent, such as sawdust or vermiculite, and sweep into closed containers for disposal. After all visible traces, including vapors, have been removed thoroughly wet vacuum the area. Do not flush to sewer. If area of spill is porous, remove as much contaminated earth, gravel, etc. as necessary and place in closed containers for disposal.

SPECIAL PROTECTIVE EQUIPMENT: Only personnel equipped with proper respiratory and skin/eye protection should be permitted in area. See Section 8 for details. DISPOSAL METHOD: Federal, State, and Local laws governing disposal of materials can differ. Ensure compliance with proper authorities before disposal.

FOR LARGE SPILLS: Contaminated sawdust, vermiculite, or porous surfaces must be disposed of in a permitted hazardous waste management facility. Recovered liquids may be reprocessed or incinerated or must be treated in a permitted hazardous waste management facility.

GENERAL COMMENTS: Dispose of in a manner consistent with federal, state, and local regulations

ENVIRONMENTAL DATA: There is limited information available on the environmental fate and effects of this material. The primary environmental concern for release is the impact on aquatic and terrestrial species. Due care should be taken to avoid the accidental release of this material into the environment.

## **SECTION VII - SPECIAL PROTECTION INFORMATION**

### **HANDLING AND STORAGE**

GENERAL PROCEDURES: Wash thoroughly after handling. Use only in a well ventilated area. Store in a cool dry place.

HANDLING: Ground and bond containers when transferring material.

STORAGE: Keep away from heat and flame.

STORAGE PRESSURE: Store at local atmospheric pressure.

STORAGE TEMPERATURE: Store in a cool place below ( 120 ) F ( 49 ) C. CONDITIONS TO AVOID: Stable. However, may decompose if heated.

#### SECTION VIII - SPECIAL PRECAUTIONS & COMMENTS

##### EXPOSURE GUIDELINES:

##### OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200)

<u>Chemical Name</u>	<u>EXPOSURE LIMITS</u>						
	<u>OSHA PEL</u>		<u>ACGIH TLV</u>		<u>Supplier OEL</u>		
	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	<u>ppm</u>	<u>mg/m<sup>3</sup></u>	
Tetrahydrofuran	TWA	200	250 mg/	200	590 mg/	NL	NL mg/
		ppm <sup>[1]</sup>	m3	ppm	m3	ppm	m3
BHT	TWA	590	735 mg/	250	737 mg/	NL	NL mg/
		ppm	m3	ppm	m3	ppm	m3
		10 mg/		10 mg/			
		m3		m3			

STABILITY: Stable.

POLYMERIZATION: Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon (CO and CO2) may form when heated to decomposition.

INCOMPATIBLE MATERIALS: Oxidizing agents, alkalies and bases.

##### TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION)

PROPER SHIPPING NAME: CONSUMER COMMODITY ORM-D

UN/NA NUMBER: N/A

PACKING GROUP: N/A

ROAD AND RAIL (ADR/RID):

KEMLER NUMBER: UN2056

HAZARD CLASS: 3

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Hazardous materials in excepted quantities of Class 3

PACKING GROUP: N/A

NOTE: Domestic shipments only. When shipping International contact TechSpray shipping department.

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Tetrahydrofuran

UN/NA NUMBER: UN2056

PRIMARY HAZARD CLASS/DIVISION: 3

PACKING GROUP: II

**REGULATORY INFORMATION (UNITED STATES)**

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES: IMMEDIATE / DELAYED

FIRE: YES PRESSURE GENERATING: NO REACTIVITY: NO ACUTE: YES

CHRONIC: NO

313 REPORTABLE INGREDIENTS: Not considered a SARA 313 "Toxic Chemical".

TITLE III NOTES: Not listed as an Extremely Hazardous Substance.

CERCLA (COMPREHENSIVE RESPONSE, COMPENSATION, AND LIABILITY ACT)

CERCLA REGULATORY: Tetrahydrofuran (CAS# 109-99-9)

CERCLA RQ: 1000 Lbs.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA REGULATORY: This product is listed on the TSCA Inventory.

RCRA STATUS: U213

OSHA HAZARD COMM. RULE: Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA)

29 CFR 1910.119---PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS

CHEMICALS: None of the chemicals in this product are considered highly hazardous by OSHA.

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