

MATERIAL SAFETY DATA SHEET

Manufacturers Name: INNOVATIVE MANUFACTURING INC
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SECTION 1: PRODUCT IDENTIFICATION

PRODUCT NAME: CURE & SEAL PRODUCT No: 3100

WHMIS CLASSIFICATION: B2, D2B
HMIS RATING: Health: 1 Flammability: 3
Reactivity: 0 Personal Protection: B

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT: CAS. No. % w/w ACGIH-TLV.
Tert-Butyl Acetate 540-88-5 75-77 200ppm
(TBAc)
Solvent Proprietary 8-10 N/A

LD 50 LC 50
Tert-Butyl Acetate 4500mg/Kg 4211 ppm
Solvent 3200mg/Kg N/A

SECTION 3: PHYSICAL DATA.

PHYSICAL STATE AND APPEARANCE: Water white liquid.
ODOUR: Solvent odour.
VAPOUR PRESSURE: Not Established
VAPOUR DENSITY: Not Established
EVAPORATION RATE: < 1 (nButyl Acetate = 1)
BOILING RANGE: Not Established
FREEZING POINT: < 0°C
SOLUBILITY IN WATER: slight
SPECIFIC GRAVITY: 0.901
pH: Not Applicable.
VOC: 349 g/L

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY CLASSIFICATION: Flammable Liquid.

UNDER WHAT CONDITIONS ?

Excess heat, flames, sparks, electrical equipment or other ignition sources.

Vapours from this product may travel and be ignited at locations distant from the point of handling.

MEANS OF EXTINCTION: Dry chemical, CO2, alcohol foam or water fog.

FIRE FIGHTING: Shut off fuel to fire if possible.

Use water spray to cool fire exposed surfaces and to protect personnel. If a leak or spill has not ignited use water spray to

disperse the vapours. Either allow fire to burn out under controlled conditions or extinguish with foam or dry chemical. Try to cover liquid spills with foam. Respiratory and eye protection may be required for fire fighting personnel. Avoid spraying water directly into storage containers due to danger of boil over. A self-contained breathing apparatus (SCBA) should be used for all indoor fires and any significant outdoor fires. For small outdoor fires, which may easily be extinguished with a portable fire extinguisher, use of a SCBA may not be required.

FLAMMABLE LIMITS: (v/v) (upper) 7 % (lower) 1.1 %
FLASH POINT & METHOD: 16.7 °C (TCC)
AUTOIGNITION TEMPERATURE: 465 °C

HAZARDOUS COMBUSTION PRODUCTS:

Toxic gases will form upon combustion consisting of smoke, fumes and oxides of carbon.

SENSITIVITY TO IMPACT: None.

SENSITIVITY TO STATIC DISCHARGE: All spraying and pumping equipment is to be grounded to avoid static build up.

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY: Stable.

INCOMPATIBILITY WITH OTHER SUBSTANCES ? Yes.

WHICH ONES ? Strong oxidizing agents, concentrated nitric or sulphuric acid.

REACTIVITY AND UNDER WHAT CONDITIONS ?

Reacts violently with oxidizing materials.

Attacks some plastics and rubber. Not corrosive to metals.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of Carbon with black smoke formed upon combustion.

SECTION 6: TOXICOLOGICAL PROPERTIES.

EFFECTS OF SHORT-TERM (ACUTE) EXPOSURE

SKIN CONTACT: Studies on solvents have shown irritation; redness and a burning sensation can result from contact. These effects are reversible shortly (usually within 1 hour) after the contact stops. Repeated or prolonged exposure can defeat the skin resulting in dermatitis (red, dry, itchy skin).

SKIN ABSORPTION: See above.

EYE CONTACT: This product is expected to be an eye irritant.

INHALATION: The main effect of inhaling Solvent vapour is depression of the central nervous system (CNS with symptoms such as headache, dizziness, nausea and vomiting. Extremely high concentrations (approximately 10000 ppm) could cause incoordination, loss of consciousness, respiratory failure and death. In some cases, a potentially fatal accumulation of fluid

in the lungs (pulmonary edema) may result. Symptoms of pulmonary edema, such as shortness of breath and difficulty breathing, may be delayed several hours after exposure.

INGESTION: Based on animal information, solvent used is only slightly toxic by ingestion. Ingestion of large amounts is likely to cause CNS effects such as dizziness, nausea and vomiting. Although there are no case reports, solvent may be aspirated, based on its physical properties (viscosity and surface tension). Aspiration is the inhalation of a material into the lungs during ingestion or vomiting. Severe lung irritation, damage to the lung tissues and death may result.

EFFECTS OF LONG-TERM (CHRONIC) EXPOSURE:

SKIN: Repeated contact can produce dermatitis (dryness and cracking) due to degreasing action.

NERVOUS SYSTEM EFFECTS: Long-term exposure may cause harmful effects on the nervous system. Symptoms such as headaches, irritability, depression, insomnia, agitation, extreme tiredness, tremors, and impaired concentration and short-term memory have been reported following long-term occupational exposure to Solvent and other solvents.

SECTION 7: PREVENTIVE MEASURES.

PERSONAL PROTECTIVE EQUIPMENT:

- GLOVES: Wear solvent resistant type. (Viton, nitrile, PVC).
- EYE: Wear chemical safety goggles recommended.
- RESPIRATION: Wear suitable respirator protection if TLV. exceeds specified ppm.
- FOOTWEAR: As required.
- CLOTHING: As required. OTHER: As required.

ENGINEERING CONTROLS: The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. Use explosion-proof equipment.

LEAK AND SPILL PROCEDURES:

Stop leak, eliminate sources of ignition & ventilate area. Prevent spills from entering sewers, watercourses or low areas. Pick up spilled material with a mineral absorbent, place into disposal container & remove to outdoors.

HANDLING PROCEDURES AND STORAGE REQUIREMENTS: Keep container closed. Handle and open containers with care. Store in a cool, well ventilated place away from incompatible materials. DO NOT handle or store near an open flame, sources of heat, or sources of ignition. Protect material from direct sunlight. Material will accumulate static charges which may cause an electrical spark - ignition source. Use proper grounding procedures. DO NOT pressurize, cut, heat or weld empty containers. Empty product containers may contain product residue. DO NOT reuse empty

containers without commercial cleaning or reconditioning.

WASTE DISPOSAL:

Ensure disposal is in compliance with all Government regulations. Notify the appropriate authorities as required. Take all action necessary to remedy any adverse effects of the spill.

DOT SHIPPING DATA:

COATING SOLUTION, CLASS 3, UN 1139, PG II

SECTION 8: FIRST AID.

INHALATION: Administer artificial respiration if breathing has stopped. Keep at rest.

Call for prompt medical attention:

EYE CONTACT: Flush eyes with large amounts of water until irritation subsides.

If irritation persists, get medical attention.

SKIN CONTACT: Wash well with plenty of soap & water.

If irritation develops, contact a physician.

Remove severely contaminated clothing, including shoes, and clean before re-use.

INGESTION: If swallowed, DO NOT induce vomiting.

Keep at rest. Get prompt medical attention.

SECTION 9: PREPARATION DATA.

PREPARED BY: INNOVATIVE MANUFACTURING INC.

PREPARATION DATE: 8 MARCH 2014

The Information contained herein is based on data believed to be reliable by INNOVATIVE MANUFACTURING INC. It is true and accurate to the best of our knowledge, but is not intended to be all-inclusive. Users should consider this information as a supplement to other information gathered by them and must make their own determination of suitability and completeness to assure proper safe use and disposal of these materials.