



SAFETY DATA SHEET

SpecSeal® Fast Tack Spray

1. PRODUCT IDENTIFICATION

IDENTIFICATION of the SUBSTANCE or PREPARATION

<u>TRADE NAME (AS LABELED):</u>	SpecSeal® Fast Tack
<u>RELEVANT USE of the SUBSTANCE:</u>	Firestop and Sound Transmission
<u>USES ADVISED AGAINST:</u>	None

COMPANY/UNDERTAKING IDENTIFICATION:

<u>SUPPLIER/MANUFACTURER'S NAME:</u>	Specified Technologies Inc.
<u>ADDRESS:</u>	210 Evans Way, Somerville, NJ 08876
<u>EMERGENCY PHONE:</u>	(800) 255-3924 , International 1+(813) 248-0585
<u>BUSINESS PHONE:</u>	(908) 526-8000 (Mon–Fri, 8 AM–5 PM ET)

<u>PREPARATION DATE:</u>	March 21,2017
<u>VERSION:</u>	2

This product is sold for commercial use. This SDS has been developed to address safety concerns of those individuals working with bulk quantities of this material, as well as those of potential users of this product in industrial/occupational settings. ALL United States Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and Canadian WHMIS [Controlled Products Regulations] and the Global Harmonization Standard required information is included in appropriate sections based on the U.S. ANSI Z400.1-2008 format. This product has been classified in accordance with the hazard criteria of the countries listed above.

2. HAZARD IDENTIFICATION

GLOBAL HARMONIZATION SYSTEM CLASSIFICATION:

Classification: Carcinogenic Category 1B, Mutagenic Cat. 1B, Skin Irritation Category 2, Eye Irritation Category 2A, Aquatic Acute Toxicity Category 3

Signal Word: Danger

Hazard Statements: H350: May cause cancer. H340: May cause genetic effects. H315: Causes skin irritation. H319: Causes serious eye irritation. H402: Harmful to aquatic life.

Precautionary Statements:

Prevention: P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P264: Wash contaminated tissues after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves, clothing, eye protection and face protection.

Response: P308 + P313: IF exposed or concerned: Get medical advice/attention. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P332 + P313: If skin irritation occurs, get medical attention. P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P337 + P313: If eye irritation persists: Get medical advice/attention. P321: Specific treatment (remove from exposure and treat symptoms). Refer to other portions of precautionary text on this label, SDS or other product information sheets, as appropriate.

Storage: P403 + P233 + P235: Store in a well-ventilated place. Keep container tightly closed. Keep cool. P405: Store locked up.

Disposal: P501: Dispose of contents/containers in accordance with all local, regional, national and international regulations.

Hazard Symbols/Pictograms: GHS07, GHS08



Reactivity Hazard: This product cures upon contact with water or prolonged exposure to air, but will not polymerize.

Environmental Hazard: This product has not been tested for environmental impact. All release to the environment should be avoided. Contains compounds that can cause harm to aquatic organisms.

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS®)

Health	1	See Section 16 for definitions of ratings 0 = Minimal 3 = Serious 1 = Slight 4 = Severe 2 = Moderate * = Chronic
Flammability	1	
Physical Hazard	0	

HMIS® is a registered trademark of the National Paint and Coatings Association.

CANADIAN WHMIS CLASSIFICATION: Class D2B. See Section 15 (Regulatory Information) for all classification details.

U.S. OSHA REGULATORY STATUS: This material is classified as hazardous under OSHA regulations.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Chemical Name	CAS #	W/W%	LABEL ELEMENTS GHS Classification Hazard Statements
Calcium Carbonate	1317-65-3	20.0-40.0	Classification: Not Applicable
Aluminum Trihydrate	21645-51-2	15.0-30.0	SELF CLASSIFICATION Classification: Eye Irritation Cat. 2 Hazard Statement Codes: H319
Diisononyl Phthalate	68515-43-5	1.0-25.0	Classification: Not Applicable
Mixed Alkyl Phthalates	68648-93-1	0.0-20.0	Classification: Not Applicable
Propylated Triphenyl Phosphate	68937-41-7	10.0-15.0	Classification: Not Applicable
Naphtha Petroleum Hydrotreated Heavy	64742-48-9	4.0-10.0	Classification: Carcinogenic Cat. 1B, Germ Cell Mutagen Cat. 1B, Aspiration Hazard Cat. 1 Hazard Statement Codes: H360, H340, H304
Proprietary Polyether Polyol		4.0-8.0	Classification: Not Applicable
Triphenyl Phosphate	115-86-6	1.0-4.0	Classification: Aquatic Toxicity Acute Cat. 1 Hazard Statement Codes: H400
Vinyltrimethoxysilane	2768-02-7	1.0-3.0	SELF CLASSIFICATION Classification: Flammable Liquid Cat. 3, Acute Inhalation Toxicity Cat. 4 Hazard Statement Codes: H225, H332
Stearic Acid	57-11-4	0.1-2.0%	Classification: Not Applicable
Quartz	14808-60-7 14464-46-1	Trace	SELF CLASSIFICATION Classification: Carcinogenic Cat. 1B Hazard Statement Codes: H350
Other trace components. Each of the other components is present in less than 1 percent concentration (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens).		Balance	Classification: Not Applicable

See Section 16 for full text of Ingredient Hazard and Precautionary Statements

4. FIRST-AID MEASURES

PROTECTION OF FIRST AID RESPONDERS: Rescuers should not attempt to retrieve victims of exposure to this material without adequate personal protective equipment. Rescuers should be taken for medical attention, if necessary.

Inhalation: If aerosols of this material are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions.

Skin Exposure : If adverse skin effects occur, discontinue use and flush contaminated area. Seek medical attention if adverse effect occurs after flushing.

Eye Exposure: If this product enters the eyes, open victim's eyes while under gently running water. Use sufficient force to open eyelids. Have victim "roll" eyes. **Minimum** flushing is for 20 minutes.

Ingestion: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT INDUCE VOMITING, unless directly by medical personnel.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Dermatitis or other pre-existing skin disorders may be aggravated by exposure to this product.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT IF NEEDED: Treat symptoms and eliminate exposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT (Pensky-Martens Closed Cup): 140°C (284°F)

AUTOIGNITION: Unknown.

FLAMMABLE LIMITS IN AIR: Unknown.

EXTINGUISHING MEDIA:

Suitable Extinguishing Media: Use extinguishing material suitable to the surrounding fire, including foam, halon, carbon dioxide, water spray and dry chemical.

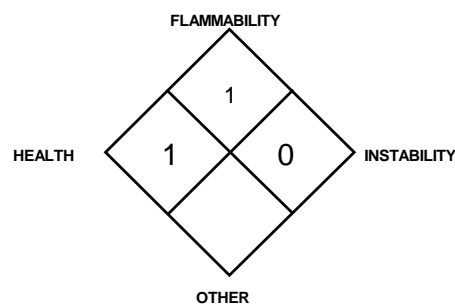
Unsuitable Extinguishing Media: None known.

PROTECTION OF FIREFIGHTERS:

Special Fire and Explosion Hazards: This product is not easily ignited and must be heated its flash point [140°C (284°F)] or to direct flame in order to ignite. Not sensitive to mechanical impact under normal conditions. Closed containers may develop pressure and rupture in event of fire or if contaminated with water. Vapors may travel to a distant location and ignite.

Special Protective Actions for Fire-Fighters: No Special protective actions for fire-fighters are anticipated

NFPA RATING



Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate
3 = Serious 4 = Severe

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES: This product is not easily ignited and must be heated its flash point [140°C (284°F)] or to direct flame in order to ignite. An accidental release can result in a fire. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used.

PERSONAL PROTECTIVE EQUIPMENT: Responders should wear the level of protection appropriate to the type of chemical released, the amount of the material spilled, and the location where the incident has occurred.

6. ACCIDENTAL RELEASE MEASURES (Continued)

PERSONAL PROTECTIVE EQUIPMENT (continued):

Small Spills: For releases of 1 drum or less, Level D Protective Equipment (gloves, chemical resistant apron, boots, and eye protection) should be worn.

Large Spills: Minimum Personal Protective Equipment should be rubber gloves, rubber boots, face shield..

METHODS FOR CLEAN-UP AND CONTAINMENT:

All Spills: Access to the spill area should be restricted. Spread should be limited by gently covering the spill with polypads. Absorb spilled liquid with clay, sand, polypads, or other suitable inert absorbent materials. All contaminated absorbents and other materials should be placed in an appropriate container and seal. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations). Dispose of recovered material and report spill per regulatory requirements. Remove all residue before decontamination of spill area. Clean spill area with soap and copious amounts of water. Monitor area for combustible vapor levels and confirm levels are below exposure limits given in Section 8 (Exposure Controls-Personal Protection), if applicable, and that levels are below applicable LELs (see Section 5 – Fire Fighting Measures) before non-response personnel are allowed into the spill area. Purge equipment with inert gas prior to reuse.

ENVIRONMENTAL PRECAUTIONS: Minimize use of water to prevent environmental contamination. Prevent spill or rinsate from contaminating storm drains, sewers, soil or groundwater. Place all spill residues in a suitable container and seal

OTHER INFORMATION: U.S. regulations may require reporting of spills of this material that reach surface waters if a sheen is formed. If necessary, the toll-free phone number for the US Coast Guard National Response Center is 1-800-424-8802.

7. HANDLING and STORAGE

PRECAUTIONS FOR SAFE HANDLING: Wash thoroughly after handling this product. Do not eat or drink while handling this material. Avoid contact with eyes, skin, and clothing. Avoid breathing fumes, dusts, vapors or mist Use only with adequate ventilation. Contaminated clothing needs to be laundered prior to reuse. Keep away from heat and flame.

CONDITIONS FOR SAFE STORAGE: This product is stable under ordinary conditions of handling, use and storage. Store containers in a cool, dry location, away from direct sunlight, sources of intense heat, or where freezing is possible. Store away from incompatible materials (see Section 10: STABILITY AND REACTIVITY). Keep container tightly closed when not in use Post warning and “NO SMOKING” signs in storage and use areas, as appropriate. Have appropriate extinguishing equipment in the storage area (i.e., sprinkler system, portable fire extinguishers). Inspect all incoming containers before storage to ensure containers are properly labeled and not damaged. Refer to NFPA 30, *Flammable and Combustible Liquids Code*, for additional information on storage Never perform any welding, cutting, soldering, drilling, or other hot work on an empty container or piping until all liquid, vapors, and residue have been cleared.

PRODUCT USE: This product is used as a caulking compound. Follow all industry standards for use of this product.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/CONTROL PARAMETERS:

Ventilation and Engineering Controls: Use with adequate, explosion proof ventilation to ensure exposure levels are maintained below the limits provided in this section.

Occupational/Workplace Exposure Limits/Guidelines:

<u>Chemical Name</u>	<u>CAS #</u>	<u>Guideline</u>	<u>Value</u>
Alkyl Phthalates	68648-93-1	NE	NE
Aluminum Trihydrate	21645-51-2	NE	NE
Calcium Carbonate	1317-65-3	OSHA PEL TWA NIOSH REL TWA	15 mg/m ³ Total Dust; 5 mg/m ³ Respirable Fraction 10 mg/m ³ Total Dust; 5 mg/m ³ Respirable Fraction
Diisononyl Phthalate	68515-43-5	NE	NE
Naphtha Petroleum Hydrotreated Heavy Exposure limited given are for Petroleum distillates, naphtha CAS# 8002-05-9	64742-48-9	OSHA PEL TWA NIOSH REL TWA NIOSH REL STEL/CEIL(C) DFG MAK TWA DFG MAK PEAK DFG MAK Pregnancy Risk Class	500 ppm 350 mg/m ³ 1800 (ceiling) mg/m ³ 20 ppm 2• MAK 15 minute average value, 1-hr interval, 4 per shift D
Propylated Triphenyl Phosphate	68037-41-7	NE	NE
Quartz	14808-60-7 14464-46-1	ACGIH TLV TWA OSHA PEL TWA NIOSH REL TWA	0.025 mg/m ³ Respirable Fraction 0.05 mg/m ³ Respirable Dust 0.05 mg/m ³ Respirable Dust
Stearic Acid	57-11-4	NE	NE
Triphenyl Phosphate	115-80-6	ACGIH TLV TWA OSHA PEL TWA NIOSH REL TWA	3 mg/m ³ 3 mg/m ³ 3 mg/m ³
Vinyltrimethoxysilane	2768-02-7	NE	NE

NE = Not Established. See Section 16 for Definitions of Terms Used.

PERSONAL PROTECTIVE EQUIPMENT (PPE): The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132, including the Respiratory Protection Standard (29 CFR 1910.134), Eye Protection Standard 29 CFR 1910.13, the Hand Protection Standard 29 CFR 1910.138, and the Foot Protection Standard 29 CFR 1910.136), equivalent standards of Canada (including the Canadian CSA Respiratory Standard Z94.4-93-02, the CSA Eye Protection Standard Z94.3-M1982, Industrial Eye and Face Protectors and the Canadian CSA Foot Protection Standard Z195-M1984, Protective Footwear). Please reference applicable regulations and standards for relevant details.

Eye/Face Protection: Use approved safety goggles or safety glasses. If necessary, refer to appropriate regulations.

Skin Protection: Wear chemical impervious gloves (e.g., Nitrile or Neoprene). If necessary, refer to appropriate regulations.

Body Protection: Use body protection appropriate for task. If necessary, refer to the OSHA Technical Manual (Section VII: Personal Protective Equipment) or appropriate Standards of Canada.

Respiratory Protection: If mists or sprays from this product are created during use, use appropriate respiratory protection. If necessary, use only respiratory protection authorized in appropriate regulations. Oxygen levels below 19.5% are considered IDLH by OSHA. In such atmospheres, use of a full-facepiece pressure/demand SCBA or a full facepiece, supplied air respirator with auxiliary self-contained air supply is required under appropriate regulations.

9. PHYSICAL and CHEMICAL PROPERTIES

FORM: Thick viscous liquid.

MOLECULAR WEIGHT: Mixture.

ODOR: Mild

SPECIFIC GRAVITY: 9.65 ± 0.25 lbs/g (1158 ± 30 g/L)

RELATIVE VAPOR DENSITY (air = 1): Heavier than air.

SOLUBILITY IN WATER: Insoluble.

MELTING/FREEZING POINT: Not established.

VOC: 115 g/L

PERCENT SOLIDS: 91%

FLASH POINT: 140C (284F)

FLAMMABLE LIMITS (in air by volume, %): Lower: Not established; Upper: Not established.

COEFFICIENT OF OIL/WATER DISTRIBUTION (PARTITION COEFFICIENT): Not established.

HOW TO DETECT THIS SUBSTANCE (WARNING PROPERTIES): The appearance and odor of this product may act as warning properties in the event of an accidental release.

COLOR: Red, or Limestone.

MOLECULAR FORMULA: Mixture.

ODOR THRESHOLD: Not available.

VAPOR PRESSURE, mm Hg @ 20°C: Not established.

EVAPORATION RATE (BuAc = 1): < 1

OTHER SOLUBILITIES: Not available.

BOILING POINT: Not established.

WEIGHT % VOC: Not established.

VISCOSITY: 35,000 cPs

AUTOIGNITION TEMPERATURE: Not established.

10. STABILITY and REACTIVITY

CHEMICAL STABILITY: Stable under normal circumstances of use and handling. **CONDITIONS TO AVOID:** Avoid contact with incompatible chemicals and exposure to extreme temperatures.

INCOMPATIBLE MATERIALS: This product is not compatible with strong bases, strong acids, and powerful oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: *Combustion:* Thermal decomposition of this product can generate aluminum, calcium, carbon and nitrogen oxides, formaldehyde, hydrogen cyanide, isocyanates and isocyanic acid and unknown hydrocarbons).

Hydrolysis: None known.

POSSIBILITY OF HAZARDOUS REACTIONS/POYMERIZATION: This product is not expected to undergo hazardous polymerization, decomposition, condensation or self-reactivity. Product slowly cures upon contact with moisture in air.

11. TOXICOLOGICAL INFORMATION

POTENTIAL HEALTH EFFECTS: The most significant routes of occupational exposure are inhalation and contact with skin and eyes.

The symptoms of exposure to this product are as follows:

Contact with Skin or Eyes: Contact may irritate the skin and cause redness and discomfort. Prolonged or repeated skin contact may cause dermatitis (dry, red skin) and defatting. Due to trace isocyanate components, this product may cause allergic reaction in susceptible individuals.

Eye contact may cause redness, pain, and tearing.

Skin Absorption: Prolonged skin contact may cause adverse systemic effects by skin absorption.

Ingestion: If the product is swallowed, it can irritate the mouth, throat, and other tissues of the gastro-intestinal system and may cause nausea, vomiting, and diarrhea as well as adverse effects on the central nervous system. **Inhalation:** Due to viscosity, inhalation is not a significant route of exposure. Vapors or fumes when used in an enclosed space, if heated or during curing may cause irritation of the respiratory system. **Injection:**

Accidental injection of this product (e.g. puncture with a contaminated object) may cause burning, redness, and swelling in addition to the wound.

TARGET ORGANS: *Acute:* Skin, eyes, respiratory system. *Chronic:* Skin, respiratory system.

TOXICITY DATA: There are currently no toxicity data available for this product; the following toxicology data are available for components greater than 1% in concentration.

ALUMINUM TRIHYDRATE:

TDLo (Oral-Child) 79 gm/kg/2 years-intermittent: Behavioral: changes in motor activity (specific assay), muscle contraction or spasticity; Musculoskeletal: osteomalacia

TDLo (Oral-Child) 122 gm/kg/4 days: Gastrointestinal: other changes; Nutritional and Gross Metabolic: body temperature increase

TDLo (Oral-Infant) 68040 mg/kg/24 weeks-intermittent: Musculoskeletal: osteoporosis; Nutritional and Gross Metabolic: weight loss or decreased weight gain, changes in phosphorus

TDLo (Oral-Woman) 73912.5 mg/kg/26 weeks-intermittent: Blood: changes in serum composition (e.g. TP, bilirubin, cholesterol); Musculoskeletal: osteoporosis; Nutritional and Gross: Metabolic: changes in phosphorus

TDLo (Oral-Woman) 84 gm/kg: female 1-40 week(s) after conception: Reproductive: Effects on Newborn: physical

TDLo (Unreported-Infant) 39 gm/kg/24 days-intermittent: Musculoskeletal: osteomalacia

TDLo (Oral-Rat) 15 mg/kg: Gastrointestinal: other changes

TDLo (Oral-Rat) 8040 mg/kg/67 days-continuous: Blood: changes in serum composition (e.g. TP, bilirubin, cholesterol); Nutritional and Gross Metabolic: changes in phosphorus

TDLo (Oral-Mouse) 80,880 mg/kg/23 weeks-continuous: Liver: other changes; Musculoskeletal: other changes; Nutritional and Gross Metabolic: changes in metals, not otherwise specified

TDLo (Intraperitoneal-Rat) 150 mg/kg

11. TOXICOLOGICAL INFORMATION (Continued)

TOXICITY DATA (continued):

ALUMINUM TRIHYDRATE (continued):

TDLo (Intraperitoneal-Rat) 6240 mg/kg/26 weeks-intermittent: Blood: pigmented or nucleated red blood cells; Nutritional and Gross Metabolic: weight loss or decreased weight gain, changes in iron

TDLo (Intraperitoneal-Rat) 1920 mg/kg/8 weeks-intermittent: Blood: microcytosis with or without anemia

TDLo (Intraperitoneal-Rat) 960 mg/kg/4 weeks-intermittent: Blood: changes in erythrocyte (RBC) count

CALCIUM CARBONATE:

Skin Irritancy (rabbit) = 500 mg/24 hours; moderate

Eye Irritancy (rabbit) = 750 µg/24 hours; severe

LD₅₀ (oral, rat) = 6450 mg/k

DIISONONYL PHTHALATE:

TDLo (Oral Rat) 52.5 gm/kg; multi-generations: Reproductive: Paternal Effects: other effects on male; Maternal Effects: other effects

NAPHTHA (PETROLEUM), HYDROTREATED HEAVY:

LD₅₀ (Oral-Rat) > 6 gm/kg

LC₅₀ (Inhalation-Rat) 8500 mg/m³/4 hours: Lungs, Thorax, or Respiration: other changes

TCLo (Inhalation-Rat) 1200 mg/m³/5 days-intermittent: Sense Organs and Special Senses (Eye): effect, not otherwise specified

TCLo (Inhalation-Rat) 5000 mg/m³/5 days-intermittent: Sense Organs and Special Senses (Eye): effect, not otherwise specified; Nutritional and Gross Metabolic: weight loss or decreased weight gain; Related to Chronic Data: death

TDLo (Skin-Rat) 14 gm/kg/4 weeks-intermittent: Blood: changes in leukocyte (WBC) count

TDLo (Skin-Rat) 42 gm/kg/4 weeks-intermittent: Behavioral: food intake (animal); Blood: changes in leukocyte (WBC) count; Skin and Appendages: primary irritation (after topical exposure)

PROPYLATED TRIPHENYL PHOSPHATE:

Standard Draize Test (Eye-Rabbit) 0.1 mL: Mild

LD₅₀ (Oral-Rat) > 20,000 mg/kg

LD₅₀ (Skin-Rat) > 2000 mg/kg

LD₅₀ (Skin-Rabbit) > 10,000 mg/kg

LC₅₀ (Inhalation-Rat) > 200,000 mg/m³/1 hour

LD (Oral-Rat) > 5 gm/kg

LD (Oral-Chicken) > 36 mL/kg

LD (Oral-Cat) > 36 mL/kg

LD (Intraperitoneal-Rat) > 5 gm/kg

LC (Inhalation-Rat) > 6350 mg/m³/4 hours

LDLo (Oral-Rabbit) 3200 µL/kg; Brain and Coverings: other degenerative changes; Liver: other changes; Kidney/Ureter/Bladder: other changes

LDLo (Skin-Rabbit) 2500 µL/kg; Behavioral: tremor, irritability; Liver: other changes

TDLo (Oral-Rat) 58,800 mg/kg/28 days-intermittent: Behavioral: food intake (animal); Liver: changes in liver weight; Related to Chronic Data: death

STEARIC ACID:

Standard Draize Test (Skin-Human) 75 mg/3 days-intermittent: Mild

LD₅₀ (Oral-Human) 14,286 mg/kg

Standard Draize Test (Skin-Rabbit) 500 mg/24 hours: Moderate

LD₅₀ (Oral-Rat) 4600 mg/kg

LD₅₀ (Skin-Rabbit) > 5 gm/kg

LD₅₀ (Intravenous-Rat) 21,500 µg/kg; Behavioral: convulsions or effect on seizure threshold; Lungs, Thorax, or Respiration: other changes

LD₅₀ (Intravenous-Mouse) 23 mg/kg; Behavioral: convulsions or effect on seizure threshold; Lungs, Thorax, or Respiration: other changes

LDLo (Oral-Rat) 4640 mg/kg

TDLo (Oral-Rat) 313 gm/kg/30 weeks-continuous: Related to Chronic Data: death

TDLo (Oral-Rat) 8400 gm/kg/24 weeks-intermittent: Biochemical: Metabolism (Intermediary): lipids including transport

TDLo (Oral-Rat) 31,500 mg/kg/30 weeks-intermittent: Behavioral: food intake (animal); Related to Chronic Data: death

TDLo (Oral-Rat) 157.5 gm/kg/6 weeks-intermittent: Blood: change in clotting factors, changes in serum composition (e.g. TP, bilirubin, cholesterol); Biochemical: Metabolism (Intermediary): lipids including transport

TDLo (Oral-Mouse) 252 gm/kg/3 weeks-intermittent: Nutritional and Gross Metabolic: weight

loss or decreased weight gain

TDLo (Oral-Mouse) 1260 gm/kg/3 weeks-intermittent: Nutritional and Gross Metabolic: weight loss or decreased weight gain; Related to Chronic Data: death

TDLo (Intramuscular-Rat) 31,500 mg/kg/30 weeks-continuous: Behavioral: food intake (animal); Lungs, Thorax, or Respiration: other changes; Related to Chronic Data: death

TDLo (Implant-Mouse) 400 mg/kg; Tumorigenic: equivocal tumorigenic agent by RTECS criteria; Kidney/Ureter/Bladder: tumors

DNA Damage (Human Liver) 10 mg/L/20 hours

TRIPHENYL PHOSPHATE:

LD₅₀ (Oral-Rat) 3500 mg/kg; Behavioral: tremor, ataxia; Gastrointestinal: hypermotility, diarrhea

LD₅₀ (Oral-Mouse) 1320 mg/kg; Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Behavioral: somnolence (general depressed activity), changes in motor activity (specific assay)

LD₅₀ (Skin-Rabbit) > 7900 mg/kg

LD₅₀ (Skin-Guinea Pig) > 4 gm/kg

LD₅₀ (Intraperitoneal-Mouse) 1273 mg/kg

LC₅₀ (Inhalation-Mammal-Species Unspecified) 4200 mg/m³; Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Behavioral: somnolence (general depressed activity), changes in motor activity (specific assay)

LD (Oral-Guinea Pig) > 4 gm/kg

LD (Intraperitoneal-Rat) > 5 gm/kg; Gastrointestinal: other changes; Skin and Appendages: hair

LD (Subcutaneous-Rat) > 3 gm/kg

LD (Subcutaneous-Mouse) > 3 gm/kg

LD (Intraperitoneal-Cat) > 400 mg/kg; Peripheral Nerve and Sensation: spastic paralysis with or without sensory change; Behavioral: somnolence (general depressed activity), muscle weakness

LD (Subcutaneous-Guinea Pig) > 3 gm/kg

LD (Intramuscular-Rabbit) > 1 gm/kg

LDLo (Oral-Cat) 2 gm/kg; Behavioral: altered sleep time (including change in righting reflex), tremor, muscle weakness

LDLo (Oral-Rabbit) 3 gm/kg

LDLo (Oral-Chicken) 5 gm/kg; Spinal Cord: other degenerative changes

LDLo (Subcutaneous-Rabbit) 1 gm/kg

LDLo (Subcutaneous-Cat) 300 mg/kg; Peripheral Nerve and Sensation: flaccid paralysis without anesthesia (usually neuromuscular blockage); Behavioral: tremor, muscle weakness

LDLo (Subcutaneous-Monkey) 500 mg/kg

TDLo (Oral-Rat) 65 gm/kg/65 days-continuous: Spinal Cord: other degenerative changes; Peripheral Nerve and Sensation: sensory syndrome diagnostic of central lesion; Nutritional and Gross Metabolic: weight loss or decreased weight gain

TDLo (Oral-Rat) 59,353 mg/kg/35 days-continuous: Liver: changes in liver weight

TDLo (Oral-Cat) 600 mg/kg/10 days-intermittent: Behavioral: tremor; Nutritional and Gross Metabolic: other changes

TDLo (Oral-Chicken) 25 gm/kg/5 days-intermittent: Spinal Cord: other degenerative changes; Behavioral: ataxia

TDLo (Skin-Bird-Domestic) 1200 mg/kg/3 days-intermittent: Spinal Cord: other degenerative changes; Behavioral: ataxia

VINYLTRIMETHOXSILANE:

Standard Draize Test (Skin-Rabbit) 500 mg/24 hours: Mild

Standard Draize Test (Skin-Rabbit) 500 mg/24 hours: Mild

LD₅₀ (Oral-Rat) 7340 µL/kg; Sense Organs and Special Senses (Olfaction): effect, not otherwise specified; Behavioral: somnolence (general depressed activity); Skin and Appendages: hair

LD₅₀ (Skin-Rabbit) 3360 µL/kg; Behavioral: somnolence, (general depressed activity) ataxia; Skin and Appendages: dermatitis, other (after systemic exposure)

VINYLTRIMETHOXSILANE (continued):

LC₅₀ (Inhalation-Rat) 2773 ppm; Sense Organs and Special Senses (Eye): lacrymation; Behavioral: somnolence (general depressed activity); Skin and Appendages: hair

TCLo (Inhalation-Rat) 400 ppm/14 weeks-intermittent: Kidney/Ureter/Bladder: other changes

TCLo (Inhalation-Rat) 750 ppm/6 hours/9 days-intermittent: Behavioral: fluid intake; Kidney/Ureter/Bladder: hematuria; Nutritional and Gross Metabolic: weight loss or decreased weight gain

CARCINOGENIC POTENTIAL: The following table summarizes the carcinogenicity listing for the components of this product. "NO" indicates that the substance is not considered to be or suspected to be a carcinogen by the listed agency, see section 16 for definitions of other ratings.

CHEMICAL	IARC	NTP	NIOSH	ACGIH	OSHA	PROP 65
Aluminum Trihydrate	No	No	No	No	No	No
Calcium Carbonate	No	No	No	A4	No	No
Diisononyl Phthalate	No	No	No	No	No	No
Mixed Alkyl Phthalates	No	No	No	No	No	No
Naphtha Petroleum Hydrotreated Heavy	3	No	No	TLV-A4	No	No
Proprietary Polyether Polyol	No	No	No	No	No	No
Quartz	1	K	Ca	A2	No	Yes
Stearic Acid	No	No	No	No	No	No
Triphenyl Phosphate	No	No	No	A4	No	No
Vinyltrimethoxysilane	No	No	No	No	No	No

IARC 1: Carcinogenic to Humans. IARC-3: Unclassifiable as to Carcinogenicity in Humans. NTP-K: Known to Be a Human Carcinogen. NIOSH-Ca: Potential Occupational Carcinogen, with No Further Categorization. ACGIH TLV-A2: Suspected Human Carcinogen. ACGIH TLV-A4: Not Classifiable as a Human Carcinogen.

IRRITANCY OF PRODUCT: This product may irritate contaminated tissue, especially if contact is prolonged.

SENSITIZATION TO THE PRODUCT: This product contains trace isocyanate compounds that may cause skin or respiratory sensitization effects.

TOXICOLOGICAL SYNERGISTIC PRODUCTS: None known.

REPRODUCTIVE TOXICITY INFORMATION: This product has not been tested for reproductive toxicity. The following information is available for some components.

Mutagenicity: Based on potential benzene content, the Naphtha Petroleum Hydrotreated Heavy component is assumed to have mutagenic properties. No specific data was found.

Embryotoxicity/Teratogenicity/Reproductive Toxicity: No information available.

BIOLOGICAL EXPOSURE INDICES (BEIs): Currently, there are no BEI's established for any component of this product.

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

MOBILITY: This product has not been tested for mobility in soil.

PERSISTENCE AND BIODEGRADABILITY: This product has not been tested for persistence or biodegradability. The Triphenyl Phosphate component has a high bioconcentration potential. BCFs of 180 to 280 have been measured in rainbow trout when exposed to products containing a high level of Triphenyl Phosphate. A BCF for Triphenyl Phosphate of 250 was measured in killifish under static conditions and a BCF of 155 was measured in killifish in a flow through system.

BIO-ACCUMULATION POTENTIAL: This product has not been tested for bio-accumulation potential.

ECOTOXICITY: This product has not been tested for aquatic or animal toxicity. All release to terrestrial, atmospheric and aquatic environments should be avoided. The following aquatic toxicity data are available for the Triphenyl Phosphate component of this product.

TRIPHENYL PHOSPHATE:

LC₅₀ (*Pimephales promelas* fathead minnow) 96 hours = 0.51-0.87 mg/L
LC₅₀ (*Leptomis Macrochirus*) 96 hours = 290 mg/L, static bioassay
LC₅₀ (*Menidia beryllina*) 96 hours = 95 mg/L, static bioassay
LC₅₀ (Rainbow trout) 96 hours = 0.3 mg/L/Static bioassay

TRIPHENYL PHOSPHATE (continued):

LC₅₀ (*Oryzias latipes* Killifish) 0.1-0.2 g) 96 hours = 1.2 mg/L; Static bioassay at 25°C
LC₅₀ (*Carassius auratus* Goldfish) 0.8-2.8 g) 96 hours = 0.70 mg/L; Static bioassay
LC₅₀ (*Ictalurus punctatus* Channel catfish); 0.23 g) 96 hours = 0.42 mg/L; Static bioassay at 22 deg C, pH 7.5 and hardness 38 mg/L

OTHER ADVERSE EFFECTS: This material is not expected to have any ozone depletion potential.

ENVIRONMENTAL EXPOSURE CONTROLS: Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: As supplied, this product would not be a hazardous waste as defined by U.S. federal regulation (40 CFR 261) if discarded or disposed. State and local regulations may differ from federal regulations. The generator of the waste is responsible for proper waste determination and management.

U.S. EPA WASTE NUMBER: Wastes of this material should be test to see if they meet the criteria of D001 (Ignitability characteristic).

14. TRANSPORTATION INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION: This product is not classified as Dangerous Goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not classified as dangerous goods, per the International Air Transport Association.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not classified as dangerous goods, per the International Maritime Organization.

15. REGULATORY INFORMATION

ADDITIONAL U.S. REGULATIONS:

U.S. SARA Reporting Requirements: The components of this product are NOT subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

U.S. SARA Hazard Categories (Section 311/312, 40 CFR 370-21): ACUTE: Yes; CHRONIC: Yes; FLAMMABILITY: Yes; REACTIVE: No; SUDDEN RELEASE: No

U.S. TSCA Inventory Status: All components are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

U.S. CERCLA Reportable Quantity (RQ): Not applicable.

U.S. Clean Air Act (CA 112r) Threshold Quantity (TQ): Not applicable.

California Safe Drinking Water and Toxic Enforcement Act (Proposition 65): The quartz component is on the California Proposition 65 lists. WARNING: This product contains a trace chemical known to the State of California to cause cancer.

ADDITIONAL CANADIAN REGULATIONS:

Canadian DSL/NDSL Inventory Status: The components of this product listed by CAS# in Section 3 (MATERIAL IDENTIFICATION) are listed on the DSL Inventory.

Canadian Environmental Protection Act (CEPA) Priorities Substances Lists: Not applicable.

Canadian WHMIS Regulations: This product is classified as a Controlled Product, Hazard Class D2B (Immediate Acute Toxicity/Irritation, Limited Evidence of Mutagenic and Carcinogenic Potential) as per the Controlled Product Regulations.

15. REGULATORY INFORMATION (continued)

ADDITIONAL MEXICAN REGULATIONS:

Mexican Workplace Regulations (NOM-018-STPS-2000): This product is classified as hazardous.

16. OTHER INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information presented in this Material Safety Data Sheet is presented in good faith based on data believed to be accurate as of the date this Material Safety Data Sheet was prepared. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THE INFORMATION PROVIDED ABOVE, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. In no case shall the descriptions, information, data or designs provided be considered a part of our terms and conditions of sale.

All materials may present hazards and should be used with caution. Because many factors may affect processing or application/use, we recommend that you make tests to determine the suitability of a product for your particular purpose prior to use. No responsibility is assumed for any damage or injury resulting from abnormal use or from any failure to adhere to recommended practices or applicable federal, state, or local laws or regulations. The information provided above, and the product, are furnished on the condition that the person receiving them shall make their own determination as to the suitability of the product for their particular purpose and on the condition that they assume the risk of their use. In addition, no authorization is given nor implied to practice any patented invention without a license.

REFERENCES AND DATA SOURCES: Contact the supplier for information.

METHODS OF EVALUATING INFORMATION FOR THE PURPOSE OF CLASSIFICATION: Bridging principles were used to classify this product.

REVISION DETAILS: February 2012: Up-date and revise entire MSDS to include current GHS requirements. November 2014: Up-date due to change in formulation. Up-date throughout to most current format. November 2014 Second Up-date: Addition of flash point and change of SDS to reflect flammability throughout. December 2014: Change of flashpoint and subsequent revision of SDS to up-date flammability status.

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