

MATERIAL SAFETY DATA SHEET

Section I: Material Identification

Product Code: KRISTALEX 5140 SOLUTION

Manufacturer's Name: Adhesives and Chemicals, Inc.
131 Brown Street
Yatesville, Pittston, PA 18640

Telephone numbers: 570-654-6735
570-883-0303

Emergency Number: Chemtrec 800-424-9300

Revision Date: 11/11/11

Section II: Toxic and Hazardous Ingredients

Hazardous Components	C.A.S. #	ACGIH TLV		OSHA		%
		TWA	STEL	TWA	STEL	
Toluene	108-88-3	50ppm		100ppm	150ppm	60
Hydrocarbon Polymer	9011-11-4					40

Section III: Physical/Chemical Characteristics

Form: Liquid	Odor: Solvent	Appearance/Color: clear - amber
Specific Gravity: 0.87		Boiling Point: 109 – 111°C
Solubility in Water at 29°C: Insoluble		
% Volatile by Weight: 60%		Evaporation Rate (N-Bu.Ac.=1): 2.24
Vapor Pressure : 24 mm of Hg at 20°C		Vapor Density: AP 3 (air = 1)
pH: N/A		Stability: Stable

Section IV: Fire and Explosion Hazard

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Water runoff can cause environmental damage. Dike and collect water used to fight fire. Use water spray to keep fire-exposed containers cool. Water may be ineffective. Material is lighter than water and a fire may be spread by the use of water. Flammable liquid and vapor. Vapors are heavier than air and may travel to a source of ignition and flash back. Vapors can spread along the ground and collect in low or confined areas. This liquid floats on water and may travel to a source of ignition and spread fire. May accumulate static electricity.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or appropriate foam. Solid streams of water may be ineffective and spread material.

Flash Point: 4 deg C (39.20 deg F)

Autoignition Temperature: 480 deg C (896.00 deg F)

Explosion Limits, Lower:1.1 vol%

Upper: 7.1 vol%

NFPA Rating: (estimated) Health: 2; Flammability: 3; Instability: 0

Section V: Health Hazards

Eye: Causes eye irritation. Vapors may cause eye irritation.

Skin: Causes skin irritation. May be absorbed through the skin. Repeated or prolonged exposure may cause drying and cracking of the skin. Not expected to cause an allergic skin reaction.

Ingestion: May cause effects similar to those for inhalation exposure. Aspiration of material into the lungs may cause chemical pneumonitis, which may be fatal. May cause central nervous system depression.

Inhalation: Causes respiratory tract irritation. Inhalation of high concentrations (>200 ppm) of toluene are clearly associated with CNS encephalopathy, headache, depression, lassitude (weakness, exhaustion), impaired coordination, transient memory loss, and impaired reaction time.

Chronic: Prolonged or repeated skin contact may cause defatting and dermatitis. Repeated exposure in combination with constant, loud noise can produce hearing loss and dizziness. Chronic hydrocarbon abuse (for example, sniffing glue or light hydrocarbons such as contained in this material) has been associated with irregular heart rhythms and potential cardiac arrest. Toluene abuse has been linked with kidney disease, as evidenced by blood, protein, & pus in the urine, accompanied by elevated serum creatinine, decreased urinary output, & metabolic & renal tubular acidosis. Although kidney toxicity has not been common in cases of occupational toluene exposure, there has been at least one report of renal toxicity following a 40-year occupational toluene exposure. Toluene does not cause the severe injury to the bone marrow that is characteristic of benzene poisoning. Intentional abuse of toluene vapors has been linked to damage of the brain, liver, kidney and to death. Repeated inhalation exposure of toluene to animals causes histological changes in the brain, degeneration of the heart tissue, and possible immune system impairment.

Section VI: First Aid

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical aid.

Skin: In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

Ingestion: Potential for aspiration if swallowed. Get medical aid immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs naturally, have victim lean forward.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Get medical aid.

Notes to Physician: Causes cardiac sensitization to endogenous catecholamines which may lead to cardiac arrhythmias. Do NOT use adrenergic agents such as epinephrine or pseudoepinephrine.

Section VII: Control and Protective Measures

Ventilation Required: Mechanical exhaust to remove vapors.

Respiratory Protection: Use NIOSH approved respirator if TLV limits are exceeded.

Skin Protection: Gloves, rubber or plastic, solvent resistant

Eye Protection: Safety goggles or full-face mask

Hygienic Work Practices: Keep area clean, clean up spills immediately, Practice good personal hygiene.

Section VIII: Precautions for Safe Handling and Use/Leak Procedures

Procedures for Cleanup: Absorb with sand, earth, vermiculite. Sweep up and dispose of in accordance with federal, state and local regulations.

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

Handling and Storage: Store in a cool, dry area, away from flame, sparks, excessive heat.

D.O.T. Shipping Name: Resin Solution,3,UN1866,PGII

HMIS Rating: Health : 2

D.O.T. Label: Flammable Liquid

Flammability: 3

Reactivity: 0

Section 313 (Title III Superfund Amendment and Reauthorization Act): Toluene

Carcinogen: No

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