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-2; Flammability-3; Reactivity-0; Special -	**HMIS Rating:** Health-2; Flammability-3; Reactivity-0; Personal Protection-B
Manufacturer's Name: **VERAX CHEMICAL CO.** Address: 20102 Broadway Ave. Snohomish, WA 98296	**DOT Hazard Classification:** Flammable **Identity** (trade name as used on label)**:** **S.A.R. – SILICONE & ADHESIVE REMOVER (No. 505)**
Date Prepared: 06/13/2002 Prepared By: GP	**MSDS Number:** SAR Revision -2
Information Calls: (425) 481-5353 **EMERGENCY RESPONSE NUMBER: 1(425)481-5353**	NOTICE: JUDGEMENT 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)	CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
Toluene			100 ppm*	50 ppm	Skin
Aliphatic Hydrocarbons			100 ppm	100 ppm	
*Workers may never be exposed to a level of 500 ppm or greater and to levels between 30 ppm and 500 ppm for a maximum of ten minutes during an eight hour shift					

SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: 232ºF	**Specific Gravity** (H2O=1): 0.830
Vapor Pressure: mm Hg.): 22	**Percent Volatiles:** 100%
Vapor Density (Air = 1): 3.2 for toluene	**Evaporation Rate** (water = 1): Slower than ether
Solubility in Water: Insoluble	
Appearance and Odor: Clear light colored liquid. Aromatic odor.	

SECTION 3 - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY as per USA FLAME PROJECTION TEST (aerosols) N/A	Auto Ignition Temperature N/A	Flammability Limits in Air by % in Volume: % LEL: N/A % UEL: N/A

FLASH POINT AND METHOD USED (non-aerosols): 40.0 – 50.0 Deg F (TCC) **SPECIAL FIRE FIGHTING PROCEDURES:** Self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode and full protective clothing required for firefighting personnel. Use water spray to cool nearby containers and structures exposed to fire.	**EXTINGUISHER MEDIA:** Use regular foam or CO2 or dry chemical. Do not use a direct water stream.

Unusual Fire & Explosion Hazards: Avoid accumulation of water because this product will float on water and may reignite on the surface of the water. Vapors are heavier than air and may travel along the ground or through ventilation system and be ignited by a spark some distance from point of use.

SECTION 4 - REACTIVITY HAZARD DATA

STABILITY [X] STABLE [ ] UNSTABLE	**HAZARDOUS POLYMERIZATION** [ ] WILL [X] WILL NOT OCCUR
Incompatibility (Mat. to avoid): Strong oxidizing agents (e.g. nitrate acid, permanganates).	**Conditions to Avoid:** Heat, sparks and open flames.

Hazardous Decomposition Products: Normal combustion forms CO2 and water vapor, incomplete combustion can form carbon monoxide and unidentified organic compounds in black smoke.

SECTION 5 - HEALTH HAZARD DATA

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

ACUTE EFFECTS:

CHRONIC EFFECTS: Toluene may be harmful to the fetus based on laboratory animal studies. Intentional misuse by deliberate inhalation of toluene has been associated with liver, kidney and brain damage in humans. Repeated exposure to toluene has been associated with high frequency hearing loss in laboratory animals.

Carcinogens: None Known to be present

Signs and Symptoms of Exposure: Irritation of the eyes, nose, skin and respiratory tract. In high concentration the vapors are irritating and anesthetic, and can cause central nervous system depression, such as headache, dizziness, weakness, impaired reaction time and coordination, nausea and vomiting. Inhalation of very high concentrations or prolonged exposure may cause unconsciousness or death. Ingestion may result in vomiting. If vomiting occurs spontaneously, do not allow vomitus to be breathed into the lungs as even a small quantity in the lungs may result in chemical pneumonitis and pulmonary edema/hemorrhage.

Medical Conditions Generally Aggravated by Exposure: Preexisting eye, skin and respiratory disorders.

EMERGENCY FIRST AID PROCEDURES

Eye Contact: Flush with water for 15 minutes while lifting eyelids. Get immediatemedical attention.

Skin Contact: Immediately flush with water while removing contaminated clothing. Neutralize with dilute vinegar or lemon juice. Follow by washing with soap and water. Launder clothing before re-use. Get medical attention.

Inhalation: Remove to fresh air. If not breathing give artificial respiration and call a physician.

Ingestion: DO NOT INDUCE VOMITING. Get immediate medical attention. If vomiting occurs spontaneously keep victim's head below hips to prevent his breathing vomitus into his lungs.

SECTION 6 - CONTROL AND PROTECTIVE MEASURES

Respiratory Protection (specify type): Wear a NIOSH-approved respirator appropriate for the vapor concentration at the point of use.

Protective Gloves: Neoprene gloves recommended.	**Eye Protection:** Splash goggles or face shield.

Ventilation Requirements: Local mechanical exhaust capable of maintaining emissions at the point of use below the PEL.

Other Protective Clothing & Equipment: Long-sleeved shirt, trousers, safety shoes and rubber apron. Do not wear clothes soaked by product..

Hygienic/Work Practices: Ordinary good housekeeping procedures. Wash hands thoroughly after handling and before eating or using restroom facilities. Avoid food contamination. Read product directions before use.

SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps To Be Taken If Material Is Spilled Or Released: Small spills should be flushed with plenty of water. Larger spills should be collected for disposal. Caution: Spilled material may be slippery.

Waste Disposal Methods: Waste Disposal Method: Biodegradable. Flush to sewer or absorb with suitable medium and incinerate or landfill according to local, state, and federal regulations.

Precautions To Be Taken In Handling & Storage: All normal precautions. Avoid food contamination.

Other Precautions &/or Special Hazards: KEEP OUT OF REACH OF CHILDREN. Read & follow label directions. Spilled material may be slippery.

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