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#85041

DISTRIBUTOR'S NAME:

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SECTION 1 -- PRODUCT INFORMATION

PRODUCT CODE: 2147

TRADE NAME: FILM ADHERENT

- H M I S C O D E S -
HEALTH - 2*
FLAMMABILITY - 3
REACTIVITY - 0

PRODUCT CLASS: ADHESIVE

PRODUCT GROUP: ADD

SECTION 2 -- HAZARDOUS INGREDIENTS

CHEMICAL NAME; COMMON NAME; CAS NUMBER	PERCENT BY WEIGHT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE IN mmHg
		TLV	PEL	
ACETIC ACID ETHYL ESTER; ETHYL ACETATE; CAS #: 141-78-6	40-45	400PPM	400PPM	76 @ 20C
ALIPHATIC PETROLEUM DISTILLATE; LD NAPHTHA; CAS#: 64742-89-8	30-35	350PPM (NIOSH)	400PPM	38 @ 20C
* ISOPROPYL ALCOHOL; ISOPROPANOL; CAS #: 67-63-0	25-30	400PPM	400PPM	37 @ 20C
* TOLUENE; AROMATIC HYDROCARBON; CAS #: 108-88-3	< 3	50PPM	100PPM	24 @ 20C
* CYCLOHEXANE; CYCLOHEXANE; CAS#: 110-82-7	< 2	300PPM	300PPM	78 @ 68F
* SUBJECT TO REPORTING REQUIREMENT OF SECTION 313 OF TITLE III OF SARA (40 CFR PART 372)				

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SECTION 3 -- PHYSICAL DATA

BOILING RANGE: 172 DEG. F - 206 DEG. F VAPOR DENSITY: HEAVIER THAN AIR
EVAPORATION RATE: SLOWER THAN ETHER PERCENT VOLATILE BY VOLUME: 100%
VOC: 822.00 g/l
6.85 lb/gal WEIGHT PER GALLON: 6.90 LBS
PERCENT VOLATILE = PERCENT VOC NONPHOTOCHEMICALLY REACTIVE

SECTION 4 -- FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION:
OSHA CLASSIFICATION: Class IB Flammable Liquid; DOT CLASSIFICATION:
Flammable Liquid

OTHER COMMENTS:
NFPA RATING: H-2 F-3 R-0

FLASH POINT:
16F (PMCC)

LOWER EXPLOSIVE LEVEL:
1.1 % Vol. in Air

EXTINGUISHING MEDIA:
Foam- CO2- Dry Chemical- Water Spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Isolate from heat, electrical equipment, sparks, and open flame. Closed
containers may explode when exposed to extreme heat.

SPECIAL FIREFIGHTING PROCEDURES:

Water may be ineffective but may be used to cool containers. The use of self-contained breathing apparatus is recommended for fire fighters.

SECTION 5 -- HEALTH HAZARD DATA**EFFECTS OF OVEREXPOSURE:**

Eye contact with the liquid, its vapors or mists may cause irritation including burning, tearing, and redness. Repeated and prolonged skin contact may cause slight irritation or mild dermatitis characterized by dryness, chapping and redness. This material may be absorbed through the skin. Overexposure by inhalation may cause respiratory tract irritation or nervous system disorders such as headaches, dizziness, weakness and fatigue. Repeated and prolonged overexposure by skin absorption or intentional misuse by deliberately inhaling toluene has been associated with liver, kidney & brain damage in humans. Ingestion may cause gastrointestinal tract irritation and signs of nervous system depression. Ingestion may cause vomiting. Aspiration of material into lungs, may cause and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Overexposure to Toluene during pregnancy may be harmful to the human fetus. Repeated exposure to Toluene has been associated with high frequency hearing loss in lab animals. Overexposure has caused nasal damage and cardiac sensitization in lab animals. Isopropyl Alcohol causes harm to the fetus in lab animals. The relevance of these findings to humans is uncertain.

MEDICAL CONDITIONS PRONE TO AGGRAVATE BY EXPOSURE:

Persons with pre-existing skin, lung, or cardiac disorders may be more susceptible to the effects of this material. Repeated and prolonged overexposure and/or individual sensitivity may increase the potential for and degree of adverse health effects.

PRIMARY ROUTE(S) OF ENTRY:

Dermal (Contact/Absorption) - Inhalation - Ingestion

EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT: Wash with soap and water, contact physician if irritation persists. **EYE CONTACT:** Flush well with running water for a minimum of 15 minutes, contact physician if irritation persists. **INHALATION:** Remove to fresh air, restore breathing, contact physician. **INGESTION:** Contact physician or Poison Control Center immediately.

OTHER COMMENTS:

The potential health effects of this product are based on the hazards of

OTHER COMMENTS:

its components. TSCA Inventory: All ingredients listed.

SECTION 6 -- REACTIVITY DATA**STABILITY:**

Stable.

CONDITIONS TO AVOID:

Heat, sparks and open flame.

INCOMPATIBILITY (WITH MATERIALS):

Strong oxidizing agents, acids, bases and amines.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide, Carbon Dioxide and other noxious gases.

HAZARDOUS POLYMERIZATION:

Will not occur.

SECTION 7 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate area. Avoid breathing vapors. Contain release and remove with inert absorbent. Avoid contact. Use non-sparking tools to place material in appropriate container for disposal.

WASTE DISPOSAL METHOD:

Dispose of in accordance with applicable local, county, state, and federal regulations.

SECTION 8 -- SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

If vapor concentration exceeds the TLV listed in Section II, use NIOSH approved respirator with organic chemical cartridge. Contact a reputable safety supply company for the appropriate respirator.

VENTILATION:

Use applicable engineering controls, work practices, and personal protective equipment to keep the vapor concentration below the TLV listed in Section II.

PROTECTIVE GLOVES:

Use neoprene, nitrile or other gloves resistant to solvents listed in Section II. Contact a reputable safety supply company for appropriate gloves.

EYE PROTECTION:

Use splash-proof goggles or safety glasses. Contact a reputable safety supply company for appropriate eye protection. The use of contact lenses is not recommended.

OTHER PROTECTION:

Solvent resistant aprons and availability of an eye wash are recommended. Smoke in designated areas only.

HYGIENIC PRACTICES:

Wash with soap and water before eating, smoking or using toilet facilities. NEVER try to remove ink from the skin by using solvent or thinner. Such action is likely to increase the possibility of undesirable effects. Remove contaminated clothing to prevent prolonged skin contact.

SECTION 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Store in closed containers in cool, dry, well ventilated area away from sources of ignition. Keep containers closed when not in use.

OTHER PRECAUTIONS:

Avoid prolonged or repeated overexposure to this product. Empty containers should be disposed of in an environmentally safe manner in accordance with applicable regulations.

SECTION 10 -- DISCLOSURE

DISCLOSURE INFORMATION:

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein.