

SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

HAR Adhesive Technologies
60 South Park
Bedford, OH 44146
440-786-7185

PRODUCT INFORMATION




PRODUCT NUMBER: 728 Adhesive, 740 Adhesive
PRODUCT DESCRIPTION: Solvent Based Adhesive
RECOMMENDED USES: Difficult to Bond Substrates
RESTRICTIONS ON USE: Industrial use only
CHEMICAL FORMULA: Not Applicable to mixtures

Emergency Phone Number (CHEMTREC): 1-800-424-9300

SECTION 2: HAZARDS IDENTIFICATION

GHS Classification: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of Mixture

Flammable Liquids	Category 2			
Serious Eye Damage/Eye Irritation	Category 2A			
Acute Toxicity(Oral)	Category 4			
Skin Corrosion/Irritation	Category 2			
Specific Target Organ Toxicity (Single Exposure)	Category 3			
Hazardous to the Aquatic Environment (Acute)	Category 3			
Aspiration Hazard	Category 1			

Signal Word: Danger

Hazard Statements:

Highly flammable liquid and vapor
Harmful if inhaled
Causes skin irritation
Causes serious eye irritation
May cause damage to organs through prolonged or repeated exposures
May cause long lasting harmful effects to aquatic life
May cause drowsiness and dizziness
May be fatal if swallowed and enters airways

Precautionary Statements:

General:

Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Wear protective gloves. Wear eye protection. Keep away from heat, sparks, open flames and hot surfaces. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Ground all containers. Keep container tightly closed. Use only in a well ventilated area. Avoid breathing vapor. Wash hands thoroughly after handling.

Response:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CONTROL CENTER or physician if you feel unwell.
IF INGESTED: Do not induce vomiting. If spontaneous vomiting appears imminent or occurs, hold patients head down,

SAFETY DATA SHEET

Lower than their hips to help avoid possible aspiration or vomiting.

IF ON SKIN (or hair): Take off contaminated clothing immediately. Rinse skin with water or shower.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists: Get medical attention.

Storage:

Store in a well-ventilated place in accordance with local regulations. Keep cool.

Disposal:

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified:

None known.

Potential Health Effects

Carcinogenicity:

IARC, ACGIH, OSHA, NTP: No component of this product is greater or equal to 0.1% and identified as a potential carcinogen.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family: Mixture of Solvent and Resins

COMPONENT	CAS NUMBER	CONCENTRATION (% by weight)
Toluene	108-88-3	10 – 15
Methyl Ethyl Ketone	78-93-3	55 – 65
Ethylene Glycol monobutyl ether	111-76-2	5 – 8
Synthetic Resin	Proprietary	17 – 25

SECTION 4: FIRST AID MEASURES

General Advice:	Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave victim unattended.
If Inhaled:	Move to fresh air. Lay patient down and keep warm and rested. Be sure airway is clear. If rapid recovery does not occur, transport to nearest medical facility for additional treatment.
In Case of Skin Contact:	Wash with soap and water. If skin irritation persists, call a physician if on clothes, remove clothes and wash.
In Case of Eye Contact:	Immediately flush eye(s) with plenty of water. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Transport to nearest medical facility for additional treatment.
If Swallowed:	If swallowed, do not induce vomiting: transport to nearest medical facility for additional treatment. If vomiting occurs spontaneously, keep head below hips to prevent aspiration. Give nothing by mouth to an unconscious person. Seek medical attention and bring this SDS.
Advice to Physician:	Causes central nervous system depression. If necessary call a POISON CONTROL CENTER for guidance.

SECTION 5: FIRE FIGHTING MEASURES

Clear fire area of all non-emergency personnel.

Flash Point:	~23°F TCC (Based on MEK content)
Explosion /Flammability:	~11.5% (Based on MEK content)
Lower Explosion Limit:	~2% (Based on MEK content)

SAFETY DATA SHEET

Auto Ignition Temperature:	659 °F (Based on MEK content)
Specific Hazard:	Carbon monoxide may be generated if incomplete combustion occurs. The vapor is heavier than air, spreads along the ground and distant ignition is possible.
Extinguishing Media:	Foam, Carbon Dioxide(CO ₂), Dry Chemical
Precautions for Fire-Fighting:	Material is volatile and readily gives off vapors which may travel along the ground or be moved by ventilation and ignited by pilot lights, flames, sparks, heaters, smoking, electric motors, static discharge or other ignition sources at locations near material handling point. Wear full firefighting turn-out gear and respiratory protection (SCBA). Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning material with water used for cooling purposes.

NFPA Flammable and Combustible Liquid Classification: Flammable Liquid Class 1B

SECTION 6: ACCIDENTAL RELEASE MEASURES

Observe all relevant local, state, national and international regulations.

Protective Measures:	Avoid contact with spilled or released material. Shut off all ignition sources. No smoking. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Evacuate surrounding area.
Environmental Precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution.
Small Spill:	Stop leak if without risk. Move containers from spill area. Use spark proof tools and explosion-proof equipment. Absorb with inert dry material and place in the appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill:	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows: Contain and collect spillage with non-combustible absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (See Section 13). Dispose of via licensed waste disposal contractor. Contaminated absorbent material may pose same hazard as the spilled product.

SECTION 7: HANDLING AND STORAGE

Handling:	Put on appropriate personal protective equipment. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting, and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharge. Empty containers retain product residue and can be hazardous. Do not reuse container. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas.
Storage:	Store in accordance with local regulations in a segregated, approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials, food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Do not store in pits, depressions, basements, or areas where vapors can be trapped. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use an appropriate containment method to avoid environmental contamination.

SAFETY DATA SHEET

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:	Wear safety glasses with side shields when handling this product. Wear additional eye protection such as chemical splash goggles and/or face shield when the possibility exists for eye contact with splashing or spraying liquid, or airborne material. Have an eye wash station available.
SKIN PROTECTION:	Avoid skin contact by wearing chemically resistant, impervious gloves.
GLOVES:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling.
RESPIRATORY PROTECTION:	Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
VENTILATION:	Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation.
HYGIENE MEASURES	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

EXPOSURE LIMITS:

Chemical Name	CAS	ACGIH TWA	NIOSH REL TWA
Methyl Ethyl Ketone	78-93-3	300 ppm (8 hours)	400 ppm (10 hours)
Toluene	00108-88-3	50 ppm	700 ppm (IDLH)
Ethylene Glycol monobutyl ether	111-76-2	20 ppm	25 ppm

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Clear
ODOR:	Solvent
ODOR THRESHOLD:	Not established
SPECIFIC GRAVITY:	0.86
SOLIDS (% by weight):	25 – 28 %
pH:	N/A
BOILING POINT (deg. C):	N/A
FREEZING/MELTING POINT (deg. C):	N/A
VAPOR PRESSURE (mm Hg):	38.44 mm Hg @ 68 F
VAPOR DENSITY:	2.5 @ air = 1
EVAPORATION RATE:	Approximately 5.7 (butyl acetate = 1)
OCTANOL/WATER COEFFICIENT:	Not established
SOLUBILITY IN WATER:	Insoluble

SAFETY DATA SHEET

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions.
CHEMICAL INCOMPATIBILITY: Not established
CONDITIONS TO AVOID: Strong Acids or Bases, Heat, Flames and sparks
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide

SECTION 11: TOXICOLOGICAL INFORMATION

CHEMICAL NAME	LD50/Dermal/Rabbit	LD50 Oral/Rat
Methyl Ethyl Ketone	6,480 mg/kg	2,737mg/kg
Toluene	N/A	<870 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

OVERVIEW: Information given is for Toluene only.

Acute Toxicity:

Fish : LC50 (96 hr) 7.3~22.8 mg/l
 Water Flea : EC50 (48) Practically non-toxic: LL/EL/IL > 100 mg/l

SECTION 13: DISPOSAL CONSIDERATIONS

Material : Residues and spilled material are hazardous waste due to ignitability. Solidify and dispose of in an approved landfill. Consult state, local or provincial authorities for more restrictive requirements. Do not dispose into the environment, in drains or in water courses. Waste product should not be allowed to contaminate soil or water.

Container : Drain container thoroughly. After draining, vent in a safe place away from sparks and fire. Residue may cause an explosion hazard. Do not puncture, cut or weld uncleaned drums. Send to drum re-conditioner or metal re-claimer.

SECTION 14: TRANSPORTATION INFORMATION

US Department of Transportation Classification
 Identification number : UN 1133
 UN proper shipping name : Adhesive
 Class/Division : 3
 Packing Group : II

SECTION 15: REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

State Regulations

Massachusetts : Methyl Ethyl Ketone, Toluene
 New Jersey : Methyl Ethyl Ketone, Toluene

SAFETY DATA SHEET

Pennsylvania Methyl Ethyl Ketone, Toluene

Canada Inventory Listed or exempted

CERCLA REGULATED CHEMICAL: Methyl Ethyl Ketone, Toluene

SARA 302 EHS CHEMICALS: Toluene 1,000 pound RQ,

SARA 311/312 HAZARD CLASS: Fire hazard. Immediate acute health hazard.

SARA 313 CHEMICALS: Toluene, Methyl Ethyl Ketone

WHMIS STATUS: Class B-2: Flammable liquid; Class D-2A: Material causing other toxic effects.

California Proposition 65: We do not intentionally add any Prop 65 chemicals.

SECTION 16: ADDITIONAL INFORMATION

SDS Date: 8/4/15

Previous Revision: N/A

This Safety Data Sheet is prepared to comply with the United States Occupational Safety and Health Administration (OSHA) Hazard Communication Standard (29 CFR 1910.1200) and the Canadian Workplace Hazardous Materials Information System (WHMIS).

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