

SOLVENT RELEASE ADHESIVES

Most lacquer, rubber or plastic base adhesives are the solvent-release type. They are universal and easy to apply with no special preparation required. However, they are limited in their application as they are not suitable for cementing non-porous surfaces such as metals, glass, glazed ceramics and others, due to the inability of the solvent to evaporate quickly, except around the edges. They do work very well if one or both of the bonding surfaces consists of material which has some porosity.



General Purpose Plastic Cement II

A solvent-release adhesive with a special Nitrocellulose Lacquer Base. The bond is hard, but not brittle. Adheres especially well to plastics, paper, leather, ceramics and metal. Quick-drying and waterproof. Widely used by repairmen, model builders, hobbyists and do-it-yourselfers. Ozone friendly.

Part No. 10-327 2 fl. oz. Bottle with Brush
Replaces Part No. 10-324



Rubber-to-Metal Cement II

A heavy-bodied, rubber-based cement with outstanding bonding qualities to many materials such as natural and synthetic rubber, metal, wood and plastics. Dries quickly and produces a lasting, flexible bond which often exceeds the strength of the material itself. Used to cement any rubber or flexible plastic part to cabinets, chassis or panels; also for gaskets, weather strips, etc. Ozone friendly.

Part No. 10-354 2 fl. oz. Bottle with Brush
Replaces Part No. 10-352



GC Bond

Thermoplastic adhesive based on synthetic components with unusually strong bonding characteristics to most materials. Produces a waterproof, resilient and long-lasting flexible bond. Light tan in color. GC Bond's uses range from cementing paper and cardboard to cementing electronic components to circuit boards and chassis. Sticks well to all metals and glass. Dries in 15 to 30 minutes.

Part No. 10-4302 2 fl. oz. Bottle with Brush
N.S.N. 8040-00-682-6690

Part No. 10-4308 8 fl. oz. Bottle with Brush
N.S.N. 8040-00-181-7710



Acrylic Cement

Consists of solvent for acrylics (plexiglass, lucite and others), slightly thickened with dissolved acrylic resin. It actually "welds" items made of plexiglass. The joint is usually invisible and stronger than the material itself. Cements many items used in electronics for decorative or functional purposes as well as acrylic signs, art objects and decorative pieces.

Part No. 10-4002 2 fl. oz. Bottle with Brush

Part No. 10-4008 8 fl. oz. Bottle with Brush
N.S.N. 8040-00-209-1346
N.S.N. 8040-00-259-6181
N.S.N. 8040-00-503-0315



Service Cement

A quick-drying and waterproof clear adhesive which forms a strong, hard but vibration-resistant bond with minimal shrinkage. A true universal adhesive for shop, industry, home and hobby use. Ideal for speaker repairs. May also be used for gluing porous or semi-porous materials to each other or to metals, plastics, etc. Not suitable for metal-to-metal, glass-to-metal or other non-porous to non-porous surfaces, for which Perma-Bond, GR-R-RIP or epoxy cements are more suitable.

Part No. 10-302 2 fl. oz. Bottle with Brush

Part No. 10-310 1 gal. Can



Vinylite Cement

Vinyl resin-base cement that is waterproof, almost invisible and has excellent resistance to moisture, most acids and alkalis. Used to cement items made of rigid or flexible vinyl, wood, cardboard, paper, metal, plastics, and glass. Very flexible. Lends itself particularly well to items where a rigid bond is not desirable.

Part No. 10-5802
2 fl. oz. Bottle with Brush
N.S.N. 8030-00-264-3838

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

Product Type: Solvent Release Adhesive
 Product Name: Service Cement
 Part Number(s): **10-302**
10-310
10-304 Discontinued

Section 1 - Identification of Product

HMIS Rating	Least	0
Health 2	Slight	1
Flammability 3	Moderate	2
Reactivity 2	High	3
Personal Protection D	Extreme	4
	Mask, Gloves and Apron	D

Section 2 - Hazardous Ingredients/SARA III Information

Hazardous Components	CAS#	Wt%	OSHA PEL	ACGIH TLV	Vapor Pressure mm/Hg	Temp.
Ethyl Acetate	141-78-6	30	400PPM	400PPM	86.0	68 deg. F
Cellulose Nitrate	9004-70-0	20			0	0
Isopropanol	67-63-0	15		400PPM	31.2	68 deg. F
*Toluene	108-88-3	13.2		100PPM	38.0	68 deg. F
Acetone	67-64-1	10		750PPM	185.0	68 deg. F
Butyl Acetate	123-86-4	5		100PPM	10.0	68 deg. F

*Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372.
 All components of this product are TSCA registered.

Section 3 - Physical Data

Boiling Range: 132 Deg. F
 Vapor Density: Heavier than air
 Coating VOC: 5.89 LB/GL
 Material VOC: 5.89 LB/GL
 Solubility in Water: Slight
 Appearance and Odor: Solvent odor, aromatic, oily. Clear to amber liquid.
 Specific Gravity (H₂O-1): .96
 Evaporation Rate: Slower than Ether

Section 4 - Fire & Explosion Hazard Data

Flash Point:	-4 Deg. F	Method Used: T.C.C.
Flammable Limits in Air by Volume:	Lower: 1.2%	Upper: 12.8%
Extinguishing Media:	Foam, alcohol foam, CO2, dry chemical, water fog.	
Special Fire Fighting Procedures:	Keep containers in storage cool with water to prevent pressure build up and bursting of containers. Self-contained breathing apparatus should be worn to protect firefighters from toxic degradation products.	
Unusual Fire and Explosion Hazards:	Dry nitrocellulose resin is extremely flammable and burns explosively. Avoid friction and impact to any quantity of dry resin. Burning rate increases with quantity and confinement. Toxic degradation products include Oxides of Nitrogen, Co and CO2. Dense toxic smoke is formed when material burns.	

Section 5 - Health Hazard Data

Health Risks and Symptoms of Exposure:	
Inhalation:	Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss. Prolonged exposure to vapors in concentrations in excess of TLV can cause damage to kidneys, blood and nervous system.
Eyes:	Liquid may cause eyes to become irritated.
Skin:	May be mildly irritating to skin and cause burning sensation. Repeated contact with skin may cause defatting of epidermis and dermatitis.
Skin Absorption:	Prolonged absorption of material through skin could cause damage to blood, kidneys and nervous system. Absorption through skin is indicated by redness and roughness of affected area.
Ingestion:	Headache, lethargy, drowsiness, weakness, difficulty walking, personality change, poor appetite, nausea and weight loss. May cause Gastrointestinal irritation and vomiting.
Health Hazards (Acute and Chronic):	Vapor irritating to eyes, nose and throat. Liquid irritating to eyes and skin. Prolonged and repeated exposure to vapor concentrations in excess of TLV or through prolonged absorption through skin may cause damage to blood, kidneys and nervous system. May irritate Gastrointestinal tract. May produce unconsciousness. Chronic overexposure by inhalation or ingestion may produce headache, nausea, vomiting, cough, loss of balance and visual disturbances.

Ventilation:	Mechanical or supplemental local exhaust may be required to keep vapor concentrations below TLV.
Protective Gloves:	Chemical resistant gloves and apron are recommended.
Eye Protection:	Face shield or goggles required. Eye wash and safety shower in the working area are recommended.
Other Protective Clothing or Equipment:	Chemical resistant apron, conductive sole shoes, clothing of cotton or other fabric not prone to static build up are all recommended.

Section 9 – Special Precautions

Precautions to be taken in Handling and Storage:	Keep containers tightly closed, cool, dry and away from sources of heat, sparks and ignition. Remember: Dry nitrocellulose is extremely flammable; avoid accumulating large quantities of dry resin. Dry resin may ignite from sparks or flame. Use with adequate ventilation.
Other Precautions:	Use only non-sparking tools.

Section 10 - Regulatory Information

*Toluene 108-88-3

*Indicates toxic chemical(s) subject to the reporting requirements of Section 313 of Title III and of 40 CFR 372. All components of this product are TSCA registered.

DOT Description	Paint
DOT Hazard Class	3
UN or ID #	UN 1263 (CFR49 173-150) Exceptions for Class 3 (flammable) and Combustive liquids
Pkg Group	II
Labeling	ORM-D

Warning: This product contains toluene, a chemical known to the State of California to cause birth defects or other reproductive harm.