

MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: PRODUCT IDENTIFICATION AND USE

Product Name: Frame Fast Debonder Solvent #400
Manufacturer: Uncommon Conglomerates, Inc.
Manufacturer's address: 400 Western Avenue North, St. Paul, MN 55103
Telephone number for information: 1-800-323-4545
Telephone number for emergencies: 1-800-424-9300
Product Type: Solvent
Preparer: Thomas J. McKinley, COO
Prepare Date: August 9, 1999
Supersedes: November 2, 1998

SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Percent</u>	<u>Exposure Limits</u>	
Acetonitrile (75-05-9)	<u>References</u>		
	<90	40 ppm TSA-PEL	
	OSHA 89	40 ppm TWA-TLV	
	ACGIH 96-97	60 ppm STEL-TLV	
Non-hazardous ingredient	ACGIH 96-97		
	<10	None	N/A

The precise composition of this product is proprietary information. A more detailed disclosure will be provided by Uncommon Conglomerates, Inc. to qualified Medical or Industrial Hygiene personnel as privileged information upon request in case of need for specific treatment.

SECTION 3: HAZARDS IDENTIFICATION

Emergency Overview:

Appearance and odor: Clear liquid with sweet or ether-like odor.
Acute hazards: Flammable liquid. MAY BE HARMFUL OR FATAL IF SWALLOWED. Causes eye, skin, and mucous membrane irritation. Causes adverse central nervous system, cardiovascular, and respiratory effects.
Chronic hazards: Prolonged or repeated exposure may cause kidney and liver damage.
NFPA rating: Health: 2 Flammability: 3 Reactivity: 0 Special: NDA
HMIS rating: Health: 2 Flammability: 3 Reactivity: 0 Protective Equipment: X
Routes of entry: Eye Contact. Skin contact - significant exposure may result in the absorption of harmful amounts. Ingestion may be harmful or fatal if swallowed. Inhalation of mists or vapors can result in the absorption of harmful amounts.

Potential Health Effects:

The degree of injury will depend upon exposure dose and speed and thoroughness of first aid treatment.

Acute effects: Causes eye, skin, and mucous membrane irritation, respiratory irritation, nausea and vomiting.
Systemic effects: Nausea, vomiting and headaches, central nervous system effects (lethargy, excitation, dizziness, weakness, seizures, coma), adverse cardiovascular effects (rapid heartbeat, slow heartbeat, palpitations), adverse respiratory effects (rapid respirations, chest tightness).
Sub-Chronic effects: Cyanide poisoning.
Non-Carcinogenic effects: May cause kidney and liver damage.
Reproductive or developmental effects: None of the components of this product are listed on State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Cancer: This product conforms to 29 CFR 1910.1200(g)(2)(vii). None of the components of this product are listed on State of California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
Target organs: All tissue of contact (irritation), central nervous system, respiratory system, cardiovascular system, liver, kidneys.
Medical conditions generally aggravated by exposure: Liver and kidney disorders, nervous system disorders, respiratory disorders,

cardiovascular disorders.

SECTION 4: FIRST AID MEASURES

Eye contact:	Immediately flush with water. Remove contact lenses and continue flushing for at least 15 minutes. Seek medical attention if symptoms develop or persist.
Skin contact:	Remove contaminated clothing. Flush affected area with water for at least 15 minutes. Wash affected area with mild soap and water. Seek medical attention if symptoms develop or persist.
Ingestion:	Immediately rinse mouth out with plenty of water. If within 30 minutes after ingestion, give victim a small glass of water or milk (NEVER give anything by mouth to an unconscious person). Do not induce vomiting unless instructed to do so by a physician or poison center. Seek medical attention immediately.
Inhalation:	Remove to fresh air. Seek medical attention if breathing becomes difficult.
Notes to physicians:	Contact the emergency telephone numbers listed above for assistance with the management of exposures to this product. A cyanide antidote kit should be immediately available at all times.

SECTION 5: FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point and Method:	53° F (12°C)
Flammable limits:	NDA
Autoignition temperature:	Approximately 975°F (524°C)
General hazard:	May be fatal if inhaled, ingested, or absorbed through the skin. Flammable liquid. Keep away from heat, sparks, or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Vapors are an explosion hazard indoors, outdoors, and in sewers. Vapors may be heavier than air and will spread along the ground and collect in low or confined areas (sewers, basements, tanks).
Extinguishing media:	Use water spray, fog, foam, dry chemical, alcohol-resistant foam or carbon dioxide. This product has a low flash point; use of water spray when fighting fire may be inefficient.
Fire fighting instructions:	Wear appropriate protective clothing, use self-contained breathing apparatus and cool containers with flooding quantities of water until wet after the fire is out.
Hazardous combustion products:	Carbon monoxide (CO), carbon dioxide (CO ₂), nitrogen containing compounds (NO ₂ , NO _x), hydrogen cyanide gas (HCN).

SECTION 6: SPILL OR LEAK PROCEDURES

Do not attempt to clean up chemical spills without appropriate personal protective equipment (see Section 8). Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. Extinguish or remove all ignition sources. All equipment used when handling the product must be grounded. Use vapor suppressing foam to reduce vapor. For small spills, take up with earth, sand, or other noncombustible absorbent material and place into sealable containers for later disposal. Use clean non-sparking tools to collect absorbed material. For large spills, dike far ahead for later disposal. Water spray may reduce vapor, but may not prevent ignition in closed spaces. Keep waste out of sewers, watersheds, and waterways. See section 13 for information on the disposal of recovered material.

Reporting of spills: Spills of this material in excess of a component's RQ must be reported to the National Response Center (1-800-424-8802) and to the appropriate state and local emergency response organizations. Acetonitrile (75-05-8): RQ=5000 lbs (2270 kg).

SECTION 7: HANDLING AND STORAGE

Storage temperature:	Ambient
Storage Pressure:	Atmospheric
Use adequate ventilation:	Store away from incompatible materials (see section 10). Store in cool, dry place out of direct sunlight. Use with proper personal protective equipment (see section 8). Open container carefully to release internal pressure. Keep containers tightly closed at all times. Empty containers may retain hazardous properties: follow all MSDS/label warnings even after container is emptied. Do not reuse container for food, clothing, or products for human or animal consumption. Keep this and all chemicals out of the reach of children.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: Use local exhaust in processing and storage areas. Ensure adequate

ventilation.

Respirator:

Under normal use conditions and in the presence of adequate ventilation, no respiratory protection is necessary. If ventilation is inadequate, the use of an approved air purifying respirator may be necessary. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134). If there is a potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air purifying respirators may not provide adequate protection, use a positive pressure air supplied respirator.

Eye protection:

Wear safety glasses with side shields (or goggles).

Protective clothing:

Prevent skin contact by wearing chemically resistant gloves, apron, impervious clothing, and boots.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION(CONTINUED)

Safety equipment:

Eyewash fountain, safety shower.

General recommendations:

Use good personal and industrial hygiene practices. Wash thoroughly after using product. Keep product off clothing and equipment. Launder contaminated clothing before re-use. Do not eat, drink, or smoke in any work area. It is always good industrial hygiene to limit, to the extent feasible, skin and eye contact and inhalation of chemical products.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Clear Liquid

Odor:

Sweet,

Ether-like

Ph:

NDA

Bulk Density:

NDA

Viscosity:

NDA

Freezing point:

NDA

Boiling point:

Approx. 180°F (82°C)

Solubility in water:

Miscible

Melting point:

Approx. 113°F (45°C)

Vapor Density (Air=1):

Approx. 1.42

Specific gravity:

Approx. 0.787 @ 59°F (15°C)

Evaporation Rate (n-butyl acetate=1):

Approx. 5.79

Vapor Pressure (mm Hg):

Approx. 87 mm Hg @ 24°C

VOC (Volatile Organic Compound)%: 70.8%

ROC (Reactive Organic Compound) %: 70.8% (EPA Method 24)

(EPA Method 24)

SECTION 10: STABILITY AND REACTIVITY

Incompatibility materials and conditions to avoid:

Chlorosulfonic acid, erbium perchlorate, oleum, and sulfuric acid. Always test the compatibility of materials before mixing or storing together.

Hazardous decomposition products:

Carbon monoxide (CO), carbon dioxide (CO₂), nitrogen containing compounds (NO₂, NO_x), hydrogen cyanide gas (HCN).

General:

This product will not polymerize.

SECTION 11: TOXICOLOGICAL INFORMATION

This section provides relevant information with regard to any toxicity studies performed on the product, or the "pure" form of the component(s). This information can be subject to misinterpretation. Therefore, it is essential that the following information be interpreted by individuals trained in its evaluation. Call the emergency telephone numbers listed on Page One for assistance.

Product Based:

NDA

Ingredient Based:

This product contains acetonitrile (CAS #75-05-8). Exposure to acetonitrile can occur by ingestion, inhalation, or eye and skin contact. Exposure by all routes can cause cyanide poisoning and possibly death. The onset of symptoms may be delayed due to the metabolic release of cyanide after absorption. Ingestion of small amounts of acetonitrile can cause central nervous system depression with symptoms such as nausea, vomiting, headaches, and lassitude. Exposure to larger doses can cause respiratory depression, weakness, lactic acidosis, convulsions, shock, unconsciousness, and death. The human-oral TDLo is 570 mg/kg. The rat-oral LD50 is 2460 mg/kg. Inhalation of mists of vapors can cause upper respiratory tract irritation, adverse cardiovascular effects (tachycardia), and central nervous system depression. Symptoms such as coughing, wheezing, chest tightness, nasal discharge, headaches, dizziness, nausea and vomiting with progression to convulsion, lactic acidosis, coma and death at higher concentrations can also occur. Prolonged or repeated exposure can cause cyanide poisoning. The human-inhalation TLo is 160 ppm/4 hours. In male rats, the LC50 was 7500 ppm for a single 8 hour exposure. Prostration was followed by convulsive seizures and at autopsy there was pulmonary hemorrhage. Rats exposed to 665 ppm developed inflammation of the lungs with some animals experiencing minor changes in the liver and kidneys. Eye or skin contact can cause irritation. The rabbit dermal LD50 is 1250 ul/kg. Significant skin exposure can cause cyanide poisoning. Acetonitrile did not produce adverse developmental effects or maternal toxicity in animal studies at low exposure doses. However, exposure of hamsters to acetonitrile at inhalation doses of 5000 and 8000 ppm and oral or intraperitoneal doses of 100-400 mg/kg resulted in adverse developmental effects and maternal toxicity. The ACGIH has determined that acetonitrile is not classifiable as a human carcinogen (A4).

This product contains a non-ionic surfactant (68154-97-2). There are limited data for this non-ionic surfactant. Eye, skin and mucous membrane contact is expected to cause mild to moderate irritation. Ingestion is expected to cause irritation to the gastrointestinal tract with symptoms such as nausea, vomiting and diarrhea. Inhalation of mists or vapors is expected to cause upper respiratory tract irritation with symptoms such as coughing and nasal discharge. There are no data available addressing the potential development, reproductive or carcinogenic effects following exposure to non-ionic surfactant.

SECTION 12: ECOLOGICAL INFORMATION

NDA

SECTION 13: DISPOSAL INFORMATION

General recommendations: Consult a local expert for advice on the disposal of this material.
Characteristics of recovered material may differ from those of original material.
Ensure that disposal is in compliance with local, state, and federal regulations.

SECTION 14: SHIPPING INFORMATION (GROUND ONLY)

	<u>For containers not over 1 quart</u>	<u>For containers over 1 quart</u>
DOT Shipping name:	Consumer Commodity	Acetonitrile Solution
DOT Hazard class:	None	3
DOT Packing group:	None	II
DOT Label:	ORM-D	Flammable, Liquid
DOT I.D. number:	None	UN-1648

SECTION 15: REGULATORY INFORMATION

Chemical inventories: With the following exception, all components of this product are included on the TSCA inventory list, the DSL/NDSL and the EINECS. Non-ionic surfactant (68154-97-2) is not listed on the EINECS.

Reportable quantities: Acetonitrile (75-05-8) = 5000 lbs (2270 kg).

SARA Title III (Superfund Amendments and Reauthorization Act):

302 Extremely Hazardous Materials: None
304 Notification of Accidental Release: None
311/312 Hazard Categories:
Immediate (Acute) health effects: Yes
Delayed (Chronic) health effects: Yes
Fire hazard: Yes
Sudden release of pressure hazard: Yes
Reactivity hazard: No
313 Toxic Chemical Release Reporting: Acetonitrile (75-05-8)

Clean Air Act Amendments of 1990

112(r) Listed as a Hazardous Air Pollutant: Acetonitrile (75-05-8)

State Regulatory Information: Since each state has the authority to promulgate standards more stringent than the federal government, this section cannot provide an inclusive list of all state regulations which apply to this product. Questions related to these regulations should be directed toward your local, state or federal official agencies.

SECTION 16: OTHER INFORMATION

Abbreviations:

ACGIH: American Conference of Governmental Industrial Hygienists	NDSL: Non-Domestic Substance List
CAS #: Chemical Abstracts Service Number and Health	NIOSH: National Institute for Occupational Safety and Health
DOT: Department of Transportation	NTP: National Toxicology Program
DSL: Domestic Substance List Administration	OSHA: Occupational Safety and Health
EINECS: European Inventory of Existing Chemical Substances	PEL: Permissible Exposure Limit
IARC: International Agency for Research on Cancer Substances	RTECS: Registry of Toxic Effects of Chemical Substances
IATA: International Air Transport Association	STEL: Short Term Exposure Limit
IDLH: Immediately Dangerous to Life and Health	TSCA: Toxic Substances Control Act
IMO: International Maritime Organization	TWA: Time-Weighted Average
LEL: Lower Explosion Limit	UEL: Upper Explosion Limit
MSDS: Material Safety Data Sheet	

Users responsibility: A bulletin such as this cannot be expected to cover all possible individual situations. As the user has the responsibility to provide a safe workplace, all

aspects of an individual operation should be examined to determine if, or where, precautions - in addition to those described herein - are required. Any health hazard and safety information herein should be passed on to your customers or employees, as the case may be.

Disclaimer of liability:

The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by use of this material. All chemicals may present unknown health hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist. Final determination of suitability of the chemical is the sole responsibility of the user. No representations or warranties, whether expressed or implied of merchantability, fitness for a particular purpose, or any other nature are made hereunder with respect to the information contained herein or the chemical to which the information refers. It is the responsibility of the user to comply with all applicable

The information above is believed to be accurate and represents the best information currently available to us. However, Performance Screen Supply, LLC makes no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.