

# Fort-International/Via-Bond®

## SAFETY DATA SHEET

### All Purpose Cyanoacrylate Adhesive 412

#### 1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND THE COMPANY

Product Name	All Purpose Cyanoacrylate Adhesive
Part Number	412
Distributor	Dover Finishing Products Inc. 16789-A Hymus Kirkland, Quebec H9H 3L4 <a href="mailto:dfpservice@dfp.ca">dfpservice@dfp.ca</a> <a href="http://www.dfp.ca">www.dfp.ca</a>
Telephone	514-420-6032; Toll Free 800-354-4445
Fax	514-307-6050
Emergency telephone number	844-332-3533

#### 2. HAZARDS IDENTIFICATION

Main hazards	Warning: Bonds skin in seconds. May cause eye and respiratory irritation. Combustible liquid and vapor.
Primary Routes of Entry	Skin, Eyes, Inhalation
Signs and Symptom of Exposure	<b>Inhalation</b> Exposure to vapor above the established exposure limit results in respiratory irritation, which may lead to difficulty in breathing and feeling of tightness in the chest. <b>Skin contact</b> Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reactions but due to the rapid polymerization, allergic response is rare. Cyanoacrylates generate heat on polymerization, so very large amounts will burn the skin. The solidified does not present a health problem when bonded to the skin. <b>Eye contact</b> Irritating to eyes. Will bond eyelids. Will cause excessive tearing. <b>Ingestion</b> Not expected to be harmful by ingestion. Rapid polymerization and bonds in mouth. It is very difficult to swallow.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component	Conc.	CAS	ACGIH;TLV-TWA	OSHA PEL
Ethyl Cyanoacrylate	70-100%	7085-85-0	0.2ppmTWA	None

#### 4. FIRST AID MEASURES

Skin contact	Do not pull bonded skin apart. Soak in warm, soapy water. Gently pry apart using a blunt instrument. If skin is burned because of large amounts of product, get medical attention.
Eye contact	Immediately flush with plenty of water. Get medical attention. If eyelids are bonded shut, release eyelashes first with a wet pad and warm water. Do not force eye open. Cyanoacrylates will bond to the eye, tearing will help de-bond the adhesive. Keep eye covered until de-bonding is complete, usually within 3 days. Solid particles from the polymerized product can cause abrasive damage. Get medical attention.
Inhalation	Remove to fresh air. If symptoms persist, get medical attention.
Ingestion	Ensure that breathing airways are not obstructed. The product will polymerize rapidly and bond to the mouth making swallowing extremely difficult. Usually any solidified product will separate after a few hours. Prevent any further swallowing of the separated material.

**5. FIRE FIGHTING MEASURES**

Flash Point	75°C to more than 93°C	Method: Tag Closed Cup
Auto ignition temperature	485°C	
Extinguishing media	Carbon dioxide, foam and dry chemical.	
Hazardous Product of Combustion	Trace amounts of toxic and irritating fumes.	
Special Firefighting Procedures	Firefighters should wear positive pressure self-contained breathing apparatus.	
Unusual Fire/Explosion Hazards	None	
Lower Explosive Limit	Not determined	
Upper Explosive Limit	Not determined	

**6. ACCIDENTAL RELEASE MEASURES**

Environmental precautions	Prevent spill from entering drains or open waters. Ventilate area.
Cleanup methods:	Do not use cloth for clean-up. Flood with water to complete polymerization and scrape up the polymer. Solid material can be disposed of as a non-hazardous waste.

**7. HANDLING AND STORAGE**

Handling	Avoid contact with eyes, skin and clothing. Avoid breathing vapor and mists. Wash thoroughly after handling. Avoid contact with fabric and paper goods. Contact with these may cause rapid polymerization that can generate smoke and strong irritating vapors and can cause thermal burns.
Storage	Keep in a cool, well-ventilated area away from heat, sparks and open flame. Keep container tightly closed until ready for use.
Incompatible products	No special restrictions on storage with other products

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

Engineering controls	If general ventilation is insufficient to maintain vapor concentration below established exposure limits, use positive downdraft exhaust ventilation.
Respiratory protection	If there is a potential to exceed exposure limits, use an approved respirator.
Skin protection	Use Nitrile gloves and aprons to prevent contact. DO NOT USE PVC, nylon or cotton.
Eye/face protection	Safety glasses with side shields or chemical splash goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Clear colorless to straw, Liquid.
Odor	Sharp, irritating
Boiling point / range	Greater than 150°C
Flash point	75°C to more than 93°C      Method: Tag Closed Cup
pH	Not applicable
Melting point / range	Not determined
Solubility in Water	Polymerizes in the presence of water
Specific Gravity	1.05 @ 25°C
VOC (Wt.%)	85%; 906 grams/liter (EPA Method 24). Less than 20 g/L (California SCAQMD Method 316B) (estimated)
Viscosity	Not available
Vapor Pressure	Less than 0.2 mm Hg
Vapor Density (Air=1)	Approximately 3.
Evaporation Rate	Not available.

**10. STABILITY AND REACTIVITY**

Stability	Stable under recommended storage conditions.
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## All Purpose Cyanoacrylate Adhesive, 412

Revision 1  
Revision Date 15-March-2016

Hazardous Polymerization	Rapid exothermic polymerization will occur in the presence of water, amines alkalis and alcohols.
Hazardous Decomposition Products	Oxides of carbon. Oxides of nitrogen. Irritating vapors.
Incompatible materials	Water, amines, alkalis and alcohols.
Conditions to Avoid	Spontaneous polymerizations.
Hazardous Products of Combustion	None.

### 11. TOXICOLOGICAL INFORMATION

Product toxicity data	Acute oral LD50 greater than 5,000 mg/kg (rat) (estimated)
	Acute dermal LD50 greater than 2000 mg/kg (rabbit) (estimated)

### 12. ECOLOGICAL INFORMATION

No data available

### 13. DISPOSAL CONSIDERATIONS

Recommended Method of Disposal should be made in accordance with federal, state and local regulations.  
Disposal

Not a RCRA hazardous waste.

### 14. TRANSPORT INFORMATION

#### DOT (49CFR 172)

#### US Department of Transportation – DOT – 49 CFR (Ground)

Proper Shipping Name	Combustible liquids, n.o.s. (Cyanoacrylate ester)		
Hazard Class	Class 3	Packaging Group	None
UN/ID Number	NA 1993	Marine pollutant	None
Exceptions	(Not more than 450 liters) Unrestricted		

#### IATA (Air)

Proper Shipping Name	Aviation regulated liquid n.o.s (Cyanoacrylate ester).		
Class or Division	Class 9	Packaging Group	None
UN/ID Number	UN 3334		
Exceptions	(Not more than 500 ml) Unrestricted		

#### IMDG (Vessel)

Proper Shipping Name	Unrestricted		
Hazard Class	None	Packaging Group	None
UN Number	None	Marine pollutant	None
Exceptions	N/A		

### 15. REGULATORY INFORMATION

SARA Section 302 EHS	None.
Sara Sections 311/312	Immediate Health Hazard, Delayed Health Hazard, Fire and Reactive.
Sara Section 313	This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372): None.
California Proposition 65	No California Proposition 65 listed chemicals are known to be present.
TSCA 8 (b) Inventory Status	All components of this product are listed (or exempt) on the EPA TSCA Inventory.
TSCA 12 (b) Export Notifications	None.
Canada Regulatory Information	All components are listed on or exempt from listing on the Canadian Domestic Substances List.
WHMIS hazard class	B.3, D.2.B

## 16. OTHER INFORMATION

Estimated HMIS HEALTH 2, FLAMMABILITY 2, REACTIVITY HAZARD 1  
Classification  
(HMIS is a registered trademark of the National Paint and Coatings Association)

Further information The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication; however, no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.