



Fel-Pro Incorporated
 7450 N. McCormick Blvd
 Box C1103
 Skokie Illinois 60076
 Phone (312) 761-4500 and 674-7700

2A273

MATERIAL SAFETY DATA SHEET

2551-85 = 2SF53

Essential, similar to U.S. Dept. of Labor Form No. LSB-005-4, May 1969

SECTION I

MANUFACTURER'S NAME Fel-Pro Incorporated		EMERGENCY TELEPHONE NO. (312) 674-7700
ADDRESS (Number, Street, City, State, and ZIP Code) 7450 N. McCormick Blvd., Skokie, Illinois 60076		
CHEMICAL NAME AND SYNONYMS Ethyl-2-Cyanoacrylate	TRADE NAME AND SYNONYMS Pro Grip 4000	
CHEMICAL FAMILY Cyanoacrylate Adhesives	FORMULA $C_2H_5COOC(CN)=(CH_2)$	

SECTION II—HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES AND SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Ethyl-2-Cyanoacrylate				>90	not listed
Balance of product is considered nonhazardous per U.S. Dept. of Labor O.S.H.A. criteria re: 29CFR1910.1200 Hazard Communications Law.					

SECTION III—PHYSICAL DATA

BOILING POINT (°F.)	@ 2mmHg	135°F	SPECIFIC GRAVITY (H ₂ O=1)	1.05
VAPOR PRESSURE (mmHg.)	@ 77°C	< 2 mmHg	PERCENT VOLATILE BY VOLUME (%)	~ 90%
VAPOR DENSITY (AIR = 1)		3.8	EVAPORATION RATE (AIR = 1)	Not Determined
SOLUBILITY IN WATER		Negligible	Water initiates rapid polymerization	
APPEARANCE AND ODOR	Clear to slightly hazy liquid - pungent unpleasant odor, vapors are mildly lachrymatory			

SECTION IV—FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (EMERGENCY USE ONLY)	180°F, C.O.C.	FLAMMABLE LIMITS	Not known
EXTINGUISHING MEDIA	Dry chemical or CO ₂ recommended. Water spray may result in hazardous polymerization.		
SPECIAL FIRE FIGHTING PROCEDURES	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin or eyes.		
UNUSUAL FIRE AND EXPLOSION HAZARDS	Pyrolysis may result in formation of toxic fumes. Adhesive in absorbent material, such as rags used to wipe up spills, may undergo rapid polymerization and cause an increase in temperature that conceivably result in re-ignition.		

SECTION V—HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

None established.

EFFECTS OF OVEREXPOSURE

Liquid causes skin to bond very rapidly to itself or almost anything else which it contacts. Liquid in eyes will cause irritation and can bond eyelids very quickly. Exposure to vapor may cause irritation of mucous membranes.

EMERGENCY AND FIRST AID PROCEDURES

Skin contact—Flush immediately with water to cause polymerization of the adhesive and reduce its affinity for skin. Repeated soaking in warm water may aid in loosening bonded skin. In eyes—Flush immediately and thoroughly with water holding eyelids apart to prevent bonding. Do not force eyelids apart. Consult physician immediately. For inhalation Remove to fresh air, consult physician.

SECTION VI—REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID Not applicable, but see "hazardous polymerization condition to avoid" below.
	STABLE	X	

INCOMPATIBILITY (Material to avoid)

Strong oxidizing materials can cause a vigorous reaction.

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion may result in CO, CO₂ and NO_x and possible formation of toxic fumes.

HAZARDOUS POLYMERIZATION	MAY OCCUR	X	CONDITIONS TO AVOID Contamination of adhesive with acidic or basic materials, peroxides, or water can result in rapid polymerization with uncontrollable rise in temperatures.
	WILL NOT OCCUR		

SECTION VII—SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Eliminate ignition sources, use cloths to absorb adhesive. Incinerate immediately or store in a closed metal container; clothes containing adhesive may undergo autoignition.

Protect eyes, skin, and clothing from contact with adhesive.

WASTE DISPOSAL METHOD

Controlled incineration or landfill in accordance with Federal, State and Local Regulations.

SECTION VIII—SPECIAL PROTECTION INFORMATION

RESPIRATOR PROTECTION (Specify type)

A NIOSH-MESA approved respirator for organic vapor should be worn if ventilation is inadequate.

VENTILATION	LOCAL EXHAUST If needed	SPECIAL None
	MECHANICAL GENERAL Satisfactory - under most conditions	OTHER None

PROTECTIVE GLOVES Polyethylene gloves recommended **EYE PROTECTION** Sufficient to prevent contact.

OTHER PROTECTIVE EQUIPMENT Coveralls or apron may be used to reduce risk of contact with adhesive.

SECTION IX—SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store away from heat, open flames, or ignition sources. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor. Use with ventilation adequate to maintain vapor concentration below irritating levels.

OTHER PRECAUTIONS

Material is classified as combustible liquid. Keep away from heat and open flame. If skin bonding occurs, attempts to force separation may result in local tissue damage. Repeated soaking in warm water may aid in loosening the bond.