Material Safety Data Sheet

FIR No.: 041245 **Level:** 2
Version Number: US-US-5 **Release Date:** 2011-09-19

1. Product and Company Identification

Product Name: Instant Gel Adhesive

Product Code: See Attachment

Application: Instant gel adhesive

Supplier: Ford Motor Company
Attention: MSDS Information, P.O. Box 1899
Dearborn, Michigan 48121
1-800-392-3673

Emergency Telephone: Poison Control Center: 1-800-959-3673
CHEMTREC: U.S. and Canada: 1-800-424-9300
CHEMTREC: International: 1-703-527-3887

2. Composition/Information on Ingredients

This chemical product is a preparation.

Chemical Name	CAS Number	Percent Concentration	Hazard Classification
ETHYL CYANOACRYLATE	7085-85-0	60-100	ACGIH/OSHA DSL LISTED HAZCOM PEL/TLV-US
SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE	112945-52-5	1-5	DSL LISTED

3. Hazards Identification

COMBUSTIBLE

Health: This product is a liquid adhesive which bonds the skin rapidly and strongly. Flush the affected area with large amounts of water and obtain medical attention, if it is needed.
This product is irritating to the eyes, respiratory system and skin.
Inhalation of mist and vapors may irritate the nose, throat, and lungs.
This product may cause burns.
This product may cause an allergic skin reaction.
This product may produce or aggravate asthmatic effects.

Environment: Material contains a chemical which is a Hazardous Air Pollutant (HAP), regulated by the United States Clean Air Act.

4. First-Aid Measures

Inhalation: If gas/fume/vapor/dust/mist from the material is inhaled, remove the affected person immediately to fresh air.
If irritation persists, get medical attention.

Skin Contact:	Get medical attention immediately if the skin become bonded. MOUTH: If lips are accidentally stuck together, apply lots of warm water to the lips and encourage maximum wetting and pressure from saliva inside the mouth. Peel or roll lips apart. Do not try to pull the lips with direct opposing action. It is almost impossible to swallow cyanoacrylate. The adhesive solidifies and adheres in the mouth. Saliva will lift the adhesive in 1/2 to 2 days. In case a lump forms in the mouth, position the patient to prevent ingestion of the lump when it detaches. SKIN ADHESION: First immerse the bonded surfaces in warm soapy water. Peel or roll the surfaces apart with the aid of a blunt edge, eg. a spatula or a teaspoon handle; then remove adhesive from the skin with soap and water. Do not try to pull surfaces apart with a direct opposing action.
Eye Contact:	EYELID TO EYELID OR EYEBALL ADHESION: In the event that eyelids are stuck together or bonded to the eyeball, wash thoroughly with warm water and apply a gauze patch. The eye will open without further action, typically in 1-4 days. There will be no residual damage. Do not try to open the eyes by manipulation. ADHESIVE ON THE EYEBALL: Cyano- acrylate introduced into the eyes will attach itself to the eye protein and will disassociate from it over intermittent periods, generally covering several hours. This will cause periods of weeping until clearance is achieved. During the period of contamination, double vision may be experienced together with a lachrymatory effect, and it is important to understand the cause and realize that disassociation will normally occur within a matter of hours, even with gross contamination.
Ingestion:	If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
Notes to a Physician:	BURNS: Acrylates give off heat on solidification. In rare cases a large drop will increase in temperature enough to cause a burn. Burns should be treated normally after the lump of cyanoacrylate is released from the tissue as described above. SURGERY: It should never be necessary to use such a drastic method to separate accidentally bonded skin.

5. Fire-Fighting Measures

Extinguishing Media:	Dry chemical, foam, carbon dioxide.
Specific Hazards:	Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition. Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.
Protection of Firefighters:	Fire fighters should be equipped with NIOSH-approved, self-contained breathing apparatus (SCBA) and full protective clothing.

6. Accidental Release Measures

Personal Precautions: Avoid inhalation of vapors and contact with skin and eyes.
Provide adequate ventilation.
Wear appropriate protective equipment and clothing during clean-up.

Environmental Precautions: Not applicable

Methods for Cleaning Up: Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

Handling:

Technical Measures: Provide ventilation to control vapor exposure within inhalation guidelines when handling at elevated temperatures.

Precautions and Advice for Safe Handling: Avoid breathing vapor.
Avoid getting this material into contact with your skin and eyes.
Wear protective equipment during handling.

Storage:

Technical Measures: No special precautions.

Storage Conditions: Keep the container tightly closed and in a cool, well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Measures: Use adequate ventilation to control airborne concentrations below the exposure limits/guidelines. If user operations generate a vapor, dust, and/or mist, use process enclosure, local exhaust ventilation, or other engineering controls to control airborne levels below the recommended exposure limits/guidelines.

Exposure Limits:

Chemical Name	TWA	References	Notes
ETHYL CYANOACRYLATE	0.2(ppm)	ACGIH	
SILICA, AMORPHOUS, FUMED, CRYSTALLINE FREE	Note	ACGIH	10 mg/m3 TWA (inhalable fraction)
	Note	OSHA	20 mppcf TWA, ((80)/(% SiO2) mg/m3 TWA)

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Personal Protective Equipment:

Respiratory Protection:	If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, an approved respirator must be worn. Respirator selection, use and maintenance should be in accordance with the requirements of OSHA Respiratory Protection Standard 29 CFR 1910.134 and/or Canadian Standard CSA Z94.4.
Hand Protection:	The use of polyethylene gloves is recommended.
Eye Protection:	Wear safety glasses with side shields.
Skin and Body Protection:	Use of an impervious apron is recommended.
Hygiene Measures:	Wash thoroughly after handling. When using this material, do not eat, drink or smoke.

9. Physical and Chemical Properties

Specific Gravity:	1.05 H2O=1 @4°C
Physical State:	SOLID
Form:	GEL
Odor:	IRRITATING
Color:	CLEAR
pH:	N.AP
Temperature Range During which Changes in Physical State Occur:	
Boiling Point:	>150 °C
Flash Point:	85 °C ASTM D56
Explosion Properties:	
UEL:	N.AV
LEL:	N.AV
Vapor Pressure:	1@20°C mmHg
Vapor Density:	N.AV
Solubility:	INSOLUBLE IN WATER
Viscosity:	N.AP
Evaporation Rate:	N.AV

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10. Stability and Reactivity

Stability:

This is a stable material.
Hazardous polymerization can occur.
Instability caused by excessive moisture.

Conditions and Materials to Avoid:

Hazardous polymerization can occur with contact with alkalies.
Hazardous polymerization can occur with water, alcohol or amines.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide, and other low molecular weight hydrocarbons.
Irritating and/or toxic fumes may be emitted upon the product's decomposition.

11. Toxicological Information

Inhalation:

Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.

12. Ecological Information

No specific aquatic data available for this product.

13. Disposal Considerations

Waste from Residues:

Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulation.

Contaminated Packaging:

No consideration given when disposed of according to local, state, and Federal regulations.

14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101
This product is not regulated as a dangerous good.

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II
This product is not regulated as a dangerous good.

Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)
This product is not regulated as a dangerous good.

International and Domestic Air Transportation - ICAO & IATA Section 4.2
This product is not regulated as a dangerous good.

International Water Transportation - IMDG Code Amendment 31-02
This product is not regulated as a dangerous good.

15. Regulatory Information

This product contains an ingredient(s) considered to be an environmental hazardous substance(s) by the State of New Jersey.
This product contains an ingredients(s) considered to be a hazardous substance(s) by the State of New Jersey.
This product contains NONE of the substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372
The components of this product are listed on the TSCA Inventory
Material contains a chemical which is a Ford Motor Company Material of Concern. Use and release of this material should be minimized to the greatest extent possible.

16. Other Information

Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

HMIS and NFPA Hazard Class Information:

HMIS Hazard Class:	Health: 2 (Moderate)	Flammability: 2 (Moderate)	Physical Hazard: 0 (Least)
NFPA Hazard Class:	Health: 2 (Moderate)	Flammability: 2 (Moderate)	Instability: 1 (Slight)

The following sections contain revisions OR NEW statements. 2
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Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacture's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, Diagnostic Service Center II, 1800 Fairlane Drive, Allen Park, MI 48101, USA.

Disclaimer:

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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Attachment

Product Code	Container Size	Part of Kit	Kit Product Code
TA-19	0.06 fl. oz. (1.8 mL)		