

Material Safety Data Sheet

FIR No.: 156626
Version Number: US-US-3

Level: 3
Release Date: 2006-09-15

1. Product and Company Identification

Product Name: Metal Bonding Adhesive
Product Code: See Attachment
Application: Metal bonding 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
METHYL METHACRYLATE	80-62-6	>30-60	CAA-HAP HAZCOM RQ RSMSREST WHMIS 1 SARA 313
METHACRYLIC ACID	79-41-4	1-5	HAZCOM WHMIS 1

3. Hazards Identification

Flammable liquid and vapor.

Health: This product may be harmful if it is absorbed through the skin.
 This product is irritating to the eyes, respiratory system and skin.
 This product may cause sensitization by skin contact.
 This product is harmful if swallowed.

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: Wash skin with soap and water.
 If irritation persists, get medical attention.



LINCOLN



Mercury

Motorcraft

Rotunda

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Eye Contact:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion:	If the material is swallowed, do not induce vomiting. Get immediate medical attention or advice -- give several glasses of water or milk. Do not give anything by mouth to an unconscious or convulsing person.
Notes to a Physician:	If the affected person's breathing is difficult, give oxygen.

5. Fire-Fighting Measures

Extinguishing Media:	Dry chemical, foam, carbon dioxide, water fog.
Specific Methods:	Water may be used to cool exposed containers to prevent pressure build-up and explosion when exposed to extreme heat.
Specific Hazards:	Due to pressure buildup, closed containers exposed to excess heat may explode. Empty containers may retain product residue including Flammable or Explosive vapors. Do not cut, drill, grind, or weld near full, partially full, or empty product containers.
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 skin contact and inhalation of vapors during disposal of spills. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.
Environmental Precautions:	No available information.
Methods for Cleaning Up:	Absorb the spilled material with an inert absorbent (nonflammable) material.

7. Handling and Storage

Handling:	
Technical Measures:	Keep this product from heat, sparks, or open flame. Protect electric equipment against sparking in case of risk of explosion.
Precautions and Advice for Safe Handling:	Do not puncture the container. Use with adequate ventilation.
Storage: Technical Measures:	No special precautions necessary.



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Storage Conditions:

Ground all containers of this material.
 Keep the container tightly closed and in a cool, well-ventilated place.
 Keep this product from heat, sparks, or open flame.

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 8 hr	STEL/C	References
METHACRYLIC ACID	20(ppm)		ACGIH
			OSHA
METHYL METHACRYLATE	50(ppm)	100(ppm)	ACGIH
	100(ppm)	410(ppm)	OSHA

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:

Use of impervious gloves is recommended, such as neoprene.

Eye Protection:

Wear chemical goggles.

Skin and Body Protection:

Remove contaminated clothing and wash before reuse.

Hygiene Measures:

When using this material, do not eat, drink or smoke.
 Wash thoroughly after handling.



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9. Physical and Chemical Properties

Specific Gravity: 1.13
Physical State: PASTE
Odor: SWEET
Color: OFF-WHITE
pH: N.AV
Temperature Range During which Changes in Physical State Occur:
Boiling Point: >60 °C
Flash Point: 15.56 °C SETAFLASH
Auto-ignition Temperature: N.AV
Explosion Properties:
UEL: 8.8 %
LEL: 1.6 %
Vapor Density: >1 (AIR = 1)
Solubility: INSOLUBLE IN WATER
Viscosity: N.AV
Evaporation Rate: <1

10. Stability and Reactivity

Stability: Hazardous polymerization will not occur.
This is a stable material.
Conditions and Materials to Avoid: Static discharge, friction, sparks, open flames, heat and other sources of ignition.
This product reacts with acids.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Decomposition of this product may yield oxides of nitrogen upon decomposition.
Irritating and toxic gases or fumes may be released during a fire.



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11. Toxicological Information

80-62-6 METHYL METHACRYLATE
Inhalation, adult rat, LC50 = 3750 ppm
80-62-6 METHYL METHACRYLATE
Oral, adult rat, LD50 = 7872 mg/kg
79-41-4 METHACRYLIC ACID
Skin, adult rabbit, LD50 = 500 mg/kg

Inhalation:

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

Skin Contact:

May cause allergic skin reaction.
Prolonged and/or repeated skin contact with this product may cause irritation/dermatitis.

12. Ecological Information

No specific aquatic data available for this product.

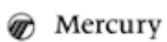
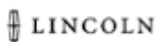
13. Disposal Considerations

Waste from Residues:

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

Contaminated Packaging:

No available information.



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14. Transport Information

U.S. Department of Transportation (DOT) 49 - CFR 172.101

Proper Shipping Name: Adhesives

UN Number: UN1133

Hazard Class / Division: 3

Packing Group: II

Reportable Quantity (per packaging):

CAS	RQ	Name
62-53-3	>100000	ANILINE
75-56-9	>100000	PROPYLENE OXIDE
80-62-6	2857	METHYL METHACRYLATE

Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID

Canadian Transportation of Dangerous Goods (T.D.G.) - TDGR Schedule II

Proper Shipping Name: ADHESIVES

UN Number: UN1133

Hazard Class / Division: 3

Packing Group: II

Regulated Quantity:

Bulk	Non-Bulk	Limited Quantity
X	X	

Label: FLAMMABLE LIQUID



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Secretary of Communication and Transportation (SCT) - NOM-002-SCT2/1994 (Mexico)

Proper Shipping Name: ADHESIVOS

UN Number: UN1133

Hazard Class/Division: 3

Packing Group: II

Regulated Quantity:

Bulk

Non-Bulk

Limited Quantity

X

X

Label: FLAMMABLE LIQUID

International and Domestic Air Transportation - ICAO & IATA Section 4.2

Proper Shipping Name: ADHESIVES

UN Number: UN1133

Hazard Class/Division: 3

Packing Group: II

Label: FLAMMABLE LIQUID

International Water Transportation - IMDG Code Amendment 31-02

Proper Shipping Name: ADHESIVES

UN Number: UN1133

Hazard Class/Division: 3

Flashpoint: 15.56 °C Setaflash

Packing Group: II

Ems Number: 3-05

Regulated Quantity:

Bulk

Non-Bulk

Limited Quantity

X

X

Label: FLAMMABLE LIQUID

15. Regulatory Information

This product contains a toxic chemical or chemicals 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.

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.

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.



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16. Other Information

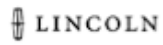
Key/Legend: N.AP = Not applicable; N.AV = Not available; ND = Not determined or No data; TLV = Threshold limit value; TWA = Time-weighted average; STEL = Short-term exposure limit; C = Ceiling limit

Preparation Information:

The chemical identification and properties for this material were provided by the manufacturer. For Canadian locations, a manufacturer's MSDS is available upon request. Health and safety information has been evaluated by the Occupational and Environmental Health Sciences Department, Ford Motor Company, National Parts General Office, MD74, 29500 Plymouth Road, Livonia, MI 48150, 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-1	1.7 fl. oz. (50 mL)	Sheet Metal Bonding Kit	TA-7-A(Inactive)
TA-1-A (Obsolete)	1.7 fl. oz. (50 mL)		
TA-1-B	7.6 fl. oz. (225 mL)		