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MMM62359314358

MATERIAL SAFETY
DATA SHEET

3M
3M Center
St. Paul, Minnesota
55144-1000
1-800-364-3577 or (651) 737-6501 (24 hours)

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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM) Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White

ID NUMBER/U.P.C.:

62-2796-1435-8	00-21200-45165-2	62-2796-3530-4	00-21200-45177-5
62-2796-3830-8	00-21200-45176-8	62-2796-6430-4	00-21200-45166-9
62-3593-1430-9	- - -	62-3593-1435-8	00-21200-82225-4
62-3593-1438-2	- - -	62-3593-3530-4	00-21200-87831-2
62-3593-3830-8	00-21200-87830-5	62-3593-3835-7	- - -

ISSUED: May 29, 2001

SUPERSEDES: March 17, 2000

DOCUMENT: 11-2661-4

This product is a kit or a multipart product which consists of multiple,
independently packaged components. An MSDS for each of these components is
included. Please do not separate the component MSDSs from this cover page.
The document numbers of the MSDSs for components of this product are:

11-2659-8
11-2660-6

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

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(2)

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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)

ISSUED: May 29, 2001

SUPERSEDES: March 16, 2000

DOCUMENT: 11-2659-8

1. INGREDIENT	C.A.S. NO.	PERCENT
EPOXY RESIN.....	25068-38-6	80.0 - 90.0
ACRYLIC POLYMER - N.J. TRADE SECRET (T.S.) REGISTRY #04499600-5018P.....	TradeSecret	10.0 - 20.0

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24
HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.
The components of this product are in compliance with the chemical
notification requirements of TSCA.

This base is used in a duo-pak cartridge kit with: SCOTCH-WELD (TM)
DP-460 (Part A); Document #1126606.

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/A
VAPOR DENSITY:..... N/A
EVAPORATION RATE:..... N/A
SOLUBILITY IN WATER:..... nil
SPECIFIC GRAVITY:..... 1.140 Water=1
PERCENT VOLATILE:..... < 2 % by wt
pH:..... N/A
VISCOSITY:..... ca. 80000 centipoise
@ room temperature
MELTING POINT:..... N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

(3)

MSDS: 3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)
May 29, 2001

PAGE 2

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

viscous liquid, white, very mild odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... > 340.00 F COC

FLAMMABLE LIMITS - LEL:..... N/A

FLAMMABLE LIMITS - UEL:..... N/A

AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 0

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Strong Acids, Strong Oxidizing Agents. Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature reaction (exotherm) with production of intense heat and smoke.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Aldehydes, Ketones, Hydrocarbons, Toxic Vapors, Gases or Particulates.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

(4)

MSDS: 3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)
May 29, 2001

PAGE 3

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Refer to other sections of this MSDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment. Cover with absorbent material. Collect spilled material. Place in a U.S. DOT-approved container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 2 gms/liter tested per EPA method 24.
Volatile Organic Compounds: 3.8 gms/liter tested per EPA method 24A mixed with part a.
VOC Less H₂O & Exempt Solvents: 2 gms/liter tested per EPA method 24.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water. Get immediate medical attention.

SKIN CONTACT:

Immediately wash skin with soap and large amounts of water. Remove contaminated clothing. If signs/symptoms occur, call a physician. Wash contaminated clothing before reuse and dispose of contaminated shoes.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

(5)

MSDS: 3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)
May 29, 2001

PAGE 4

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyethylene/ethylene vinyl alcohol.

RECOMMENDED VENTILATION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Curing ovens must be exhausted to outdoors or to a suitable emission control device. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors created during the cure cycle. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
EPOXY RESIN.....	NONE	NONE	NONE	NONE	
ACRYLIC POLYMER - N.J. TRADE SECRET (T.S.) REGISTRY #04499600- 5018P.....	NONE	NONE	NONE	NONE	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- NONE: None Established

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

⑥

MSDS: 3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)
May 29, 2001

PAGE 5

8. HEALTH HAZARD DATA

EYE CONTACT:

Moderate Eye Irritation: signs/symptoms can include redness, swelling, pain, tearing, and hazy vision.

Vapors from heated material may cause eye irritation.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Mild Skin Irritation: signs/symptoms can include redness, swelling, and itching.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Vapors of heated material may cause respiratory system irritation.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

OTHER HEALTH HAZARD INFORMATION:

Exposure to this material in normal storage and handling has not been reported to cause significant adverse health effects. However, under normal processing conditions, e.g. grinding or heating, this product may release fumes and vapors of variable composition based on specific process conditions. These process releases may produce irritation or any of the health effects listed above when the emissions are present at elevated concentrations. Use with appropriate local exhaust ventilation.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM Scotch-Weld(TM) Epoxy Adhesive DP-460, Off-White (Part B)
May 29, 2001

PAGE 6

SECTION CHANGE DATES

HEADING

SECTION CHANGED SINCE March 16, 2000

ISSUE

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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)

ISSUED: May 29, 2001

SUPERSEDES: March 16, 2000

DOCUMENT: 11-2660-6

1. INGREDIENT	C.A.S. NO.	PERCENT
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE.....	4246-51-9	50 - 60
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A - N.J. TRADE SECRET (T.S.) REGISTRY #04499600-5431P.....	TradeSecret	20.0 - 30.0
EPOXY RESIN.....	25068-38-6	7 - 13
AMORPHOUS SILICA.....	7631-86-9	3 - 7
2,4,6-TRIS((DIMETHYLAMINO)- METHYL) PHENOL.....	90-72-2	1 - 5

IN CASE OF EMERGENCY: THE NUMBERS AT THE TOP OF THIS PAGE PROVIDE 24
HOUR RESPONSE FROM ANY PHONE FOR ALL EMERGENCIES WITH THIS PRODUCT.
The components of this product are in compliance with the chemical
notification requirements of TSCA.

This accelerator is used in a duo-pak cartridge kit with: SCOTCH-WELD
(TM) DP-460 (Part B); Document #1126598.

2. PHYSICAL DATA

BOILING POINT:..... N/A
VAPOR PRESSURE:..... N/D
VAPOR DENSITY:..... 3.72 Air=1
EVAPORATION RATE:..... N/D
SOLUBILITY IN WATER:..... slight
SPECIFIC GRAVITY:..... 1.090 Water=1
PERCENT VOLATILE:..... < 2 % by wt
pH:..... N/A
VISCOSITY:..... ca. 10000 centipoise
MELTING POINT:..... N/D

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

(9)

MSDS: 3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)
May 29, 2001

PAGE 2

2. PHYSICAL DATA (continued)

APPEARANCE AND ODOR:

viscous liquid, amber, very mild pungent odor.

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:..... 340.00 F TCC

FLAMMABLE LIMITS - LEL:..... N/D

FLAMMABLE LIMITS - UEL:..... N/D

AUTOIGNITION TEMPERATURE:..... N/D

EXTINGUISHING MEDIA:

Water, Carbon dioxide, Dry chemical, Foam

SPECIAL FIRE FIGHTING PROCEDURES:

Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

NFPA HAZARD CODES: HEALTH: 1 FIRE: 0 REACTIVITY: 1

UNUSUAL REACTION HAZARD: none

4. REACTIVITY DATA

STABILITY: Stable

INCOMPATIBILITY - MATERIALS/CONDITIONS TO AVOID:

Heat is generated during cure. Do not cure a mass larger than 50 grams in a confined space to prevent a premature reaction (exotherm) with production of intense heat and smoke.

HAZARDOUS POLYMERIZATION: Hazardous polymerization will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS:

Carbon Monoxide and Carbon Dioxide, Oxides of Nitrogen, Amine Compounds, Toxic Vapors, Gases or Particulates.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

(10)

MSDS: 3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)
May 29, 2001

PAGE 3

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

Observe precautions from other sections. Cover with absorbent material. Collect spilled material. Place in an approved metal container.

RECOMMENDED DISPOSAL:

Cure product according to product instructions. Incinerate uncured waste in an industrial or commercial incinerator. Dispose of completely cured (or polymerized) material in a sanitary landfill.

ENVIRONMENTAL DATA:

Not determined.

REGULATORY INFORMATION:

Volatile Organic Compounds: 10.6 gms/liter tested per EPA method 24.

Volatile Organic Compounds: 3.8 gms/liter tested per EPA method 24A mixed with part b.

VOC Less H₂O & Exempt Solvents: 10.6 gms/liter tested per EPA method 24.

Since regulations vary, consult applicable regulations or authorities before disposal. U.S. EPA Hazardous Waste Number = None (Not U.S. EPA Hazardous).

EPCRA HAZARD CLASS:

FIRE HAZARD: No PRESSURE: No REACTIVITY: No ACUTE: Yes CHRONIC: Yes

6. SUGGESTED FIRST AID

EYE CONTACT:

Immediately flush eyes with large amounts of water for at least 15 minutes. Get immediate medical attention.

SKIN CONTACT:

Immediately flush skin with large amounts of water for at least 15 minutes in a chemical safety shower while removing contaminated clothing and shoes. Get immediate medical attention. Wash contaminated clothing before reuse.

INHALATION:

If signs/symptoms occur, remove person to fresh air. If signs/symptoms continue, call a physician.

IF SWALLOWED:

Do not induce vomiting. Drink two glasses of water. Call a physician.

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)
May 29, 2001

PAGE 4

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

Avoid eye contact. Wear vented goggles. Wear safety glasses with side shields.

SKIN PROTECTION:

Avoid skin contact. Wear appropriate gloves when handling this material. A pair of gloves made from the following material(s) are recommended: polyethylene/ethylene vinyl alcohol.

RECOMMENDED VENTILATION:

Provide appropriate local exhaust for grinding, cutting or sanding cured material. Curing ovens must be exhausted to outdoors or to a suitable emission control device. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

RESPIRATORY PROTECTION:

Avoid breathing of vapors. Avoid breathing of dust created by cutting, sanding or grinding. Select one of the following NIOSH approved respirators based on airborne concentration of contaminants and in accordance with OSHA regulations: half-mask dust respirator.

PREVENTION OF ACCIDENTAL INGESTION:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest.

RECOMMENDED STORAGE:

Store away from heat. Keep out of the reach of children.

FIRE AND EXPLOSION AVOIDANCE:

Keep container tightly closed.

EXPOSURE LIMITS

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE.....	NONE	NONE	NONE	NONE	
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL A - N.J. TRADE SECRET (T.S.) REGISTRY #04499600-5431P....	NONE	NONE	NONE	NONE	
EPOXY RESIN.....	NONE	NONE	NONE	NONE	
AMORPHOUS SILICA.....	3	MG/M3	TWA	CMRG	
	AS RESPIRABLE DUST				
2,4,6-TRIS((DIMETHYLAMINO)-METHYL) PHENOL.....	5	PPM	TWA	CMRG	

* SKIN NOTATION: Listed substances indicated with 'Y' under SKIN refer to the potential contribution to the overall exposure by the cutaneous route

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MSDS: 3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)
May 29, 2001

PAGE 5

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
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including mucous membrane and eye, either by airborne or, more particularly, by direct contact with the substance. Vehicles can alter skin absorption.

SOURCE OF EXPOSURE LIMIT DATA:

- CMRG: Chemical Manufacturer Recommended Exposure Guidelines

- NONE: None Established

8. HEALTH HAZARD DATA

EYE CONTACT:

Chemical Related Eye Burns (chemical corrosivity): signs/symptoms can include cloudy appearance of the cornea, chemical burns, pain, tearing, ulcers, impaired vision or loss of vision.

Vapors from heated material may cause eye irritation.

Dust created by cutting, grinding, sanding, or machining may cause eye irritation.

SKIN CONTACT:

Allergic Skin Reaction: signs/symptoms can include redness, swelling, blistering, and itching.

Skin Burns (chemical corrosivity): signs/symptoms can include redness, swelling, itching, pain, blistering, ulceration, sloughing, and scar formation.

INHALATION:

Irritation (upper respiratory): signs/symptoms can include soreness of the nose and throat, coughing and sneezing.

Vapors of heated material may cause respiratory system irritation.

Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system.

IF SWALLOWED:

Ingestion may cause:

Irritation of Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, abdominal tenderness, nausea, blood in vomitus, and blood in feces.

OTHER HEALTH HAZARD INFORMATION:

Exposure to this material in normal storage and handling has not been reported to cause significant adverse health effects. However, under normal processing conditions, e.g. grinding or heating, this product

Abbreviations: N/D - Not Determined N/A - Not Applicable CA - Approximately

MSDS: 3M(TM) Scotch-Weld Epoxy Adhesive DP-460, Off-White (Part A)
May 29, 2001

PAGE 6

8. HEALTH HAZARD DATA (continued)

may release fumes and vapors of variable composition based on specific process conditions. These process releases may produce irritation or any of the health effects listed above when the emissions are present at elevated concentrations. Use with appropriate local exhaust ventilation.

SECTION CHANGE DATES

HEADING	SECTION CHANGED SINCE March 16, 2000	ISSUE
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