

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 BRAND DP-460 DUO-PACK EPOXY ADHESIVE

ID NUMBER/U.P.C.:

FS-9100-1024-8	-	-	-	FS-9100-1925-6	-	-	-
FS-9100-2028-8	-	-	-	FS-9100-2086-6	-	-	-
FS-9100-2087-4	-	-	-	FS-9100-2088-2	-	-	-
FS-9100-2089-0	-	-	-	FS-9100-2090-8	-	-	-
FS-9100-2091-6	-	-	-	FS-9100-2092-4	-	-	-
FS-9100-2196-3	-	-	-	FS-9100-2197-1	-	-	-
FS-9100-2198-9	-	-	-	FS-9100-2203-7	-	-	-
FS-9100-2875-2	-	-	-	FS-9100-2916-4	-	-	-

ISSUED: May 17, 2001

SUPERSEDES: October 26, 1999

DOCUMENT: 06-4616-6

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:

06-4611-7

06-4614-1

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

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DIVISION: ENGINEERED ADHESIVES

TRADE NAME:

3M SCOTCH-WELD BRAND 460 B/A ADHESIVE - PART A

ISSUED: May 17, 2001

SUPERSEDES: December 07, 2000

SUPERSEDED DOCUMENT: 06-4614-1

1. INGREDIENT	C.A.S. NO.	PERCENT
4,7,10-TRIOXATRIDECANE-1,13-DIAMINE	4246-51-9	50.0 - 60.0
MODIFIED DIGLYCIDYL ETHER OF BISPHENOL		
A.	TradeSecret	20.0 - 30.0
EPOXY RESIN.	25068-38-6	1.0 - 10.0
2,4,6-TRIS((DIMETHYLAMINO)-		
METHYL)PHENOL.	90-72-2	1.0 - 10.0
AMORPHOUS SILICA.	7631-86-9	1.0 - 10.0

2. PHYSICAL DATA

BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: 3.72 Air=1
EVAPORATION RATE: N/A
SOLUBILITY IN WATER: slight
SPECIFIC GRAVITY: 1.090 Water=1
PERCENT VOLATILE: 0.00 % by wt
pH: N/A
VISCOSITY: 100000.0 centipoise
MELTING POINT: N/D

APPEARANCE AND ODOR:

viscous liquid, amber, very mild pungent odor.

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3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 340.00 F TCC
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: 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.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:

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

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5. ENVIRONMENTAL INFORMATION (continued)

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: 0 gms/liter.
VOC Less H₂O & Exempt Solvents: 0 gms/liter.

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.

7. PRECAUTIONARY INFORMATION

EYE PROTECTION:

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

7. PRECAUTIONARY INFORMATION (continued)

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 organic vapor respirator with dust/mist prefilter.

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-TRIOXATRIDECA-1,13-					
DIAMINE.....	NONE	NONE	NONE	NONE	
MODIFIED DIGLYCIDYL ETHER OF					
BISPHENOL A.....	NONE	NONE	NONE	NONE	
EPOXY RESIN.....	NONE	NONE	NONE	NONE	
2,4,6-TRIS((DIMETHYLAMINO)-					
METHYL)PHENOL.....	5	PPM	TWA	CMRG	
AMORPHOUS SILICA.....	3	MG/M ₃	TWA	CMRG	
		AS RESPIRABLE DUST			

* 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:

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

EXPOSURE LIMITS (continued)

INGREDIENT	VALUE	UNIT	TYPE	AUTH	SKIN*
- 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.

SECTION CHANGE DATES

HEADING SECTION CHANGED SINCE December 07, 2000 ISSUE

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