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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
SCOTCH-WELD (TM) STRUCTURAL ADHESIVE DP-190, GREY

3M Product ID:
FS-9100-4023-7 FS-9100-3383-6

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
PART A (ACCELERATOR)	---	Not determined
ALIPHATIC POLYMER DIAMINE	68911-25-1	60.0 - 70.0
EU Hazard Symbols and Risk Phrases: EU - 3M Classified (Xi; R:38-41-43)		
ALUMINUM SILICATE	1332-58-7	35.0 - 45.0
CARBON BLACK	1333-86-4	Less Than 0.1
PART B (BASE)	---	Not determined
4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXY DRIN POLYMER	25068-38-6	70.0 - 80.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (Xi,N; R:36-38-43-51/53)		

3 HAZARDS IDENTIFICATION

Critical hazards:
Irritant. Dangerous to environment. Risk of serious damage
to eyes. Irritating to skin. May cause sensitisation by skin
contact. Toxic to aquatic organisms. May cause long-term
adverse effects in the aquatic environment.

4 FIRST-AID MEASURES

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

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Skin Contact:

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

Inhalation:

If signs or symptoms occur, remove person to fresh air. If signs/symptoms continue, call a medical doctor.

Ingestion:

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

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Water, Carbon dioxide, Dry chemical Foam.

Hazardous Decomposition:

Carbon monoxide, carbon dioxide, oxides of nitrogen, oxides of sulphur.

Fire-Fighting Procedures:

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

Special Instructions:

None known.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Cover with absorbent material. Collect as much of the spilled material as possible. Place in a suitable metal container.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Store away from heat.

Fire Prevention:

Not applicable.

Precautions for Safe Handling:

See section 8

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact. Safety glasses with side shields.

Hand Protection:

Wear appropriate gloves when handling this material. The following glove material(s) are recommended: Butyl rubber. Polyethylene/ethylene vinyl alcohol.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

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

Ingestion:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Do not ingest. Keep out of the reach of children.

Recommended Ventilation:

Provide ventilated enclosure for heat curing. Provide appropriate local exhaust for cutting, grinding, sanding or machining. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Exposure Limits:

ALUMINUM SILICATE (1332-58-7)

HSE WEL TWA: 2.0 mg/m³ respirable dust OES

CARBON BLACK (1333-86-4)

HSE WEL TWA: 3.5 mg/m³ OES

HSE WEL STEL: 7 mg/m³ OES

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour:	Grey to white paste, with a very slight odour.
pH:	Not applicable
Boiling point/boiling range:	Not applicable
Melting point/melting range:	Not determined
Flash point:	Greater than 93.00 degrees C
Autoflammability:	Not determined
Vapour pressure:	Not applicable
Water solubility:	Nil
Specific gravity:	Approximately 1.300 water=1
Vapour density:	Not applicable

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Volatile organic compounds:	Not determined
Evaporation rate:	Not applicable
Viscosity:	60000.0 -100000.0 centipoise
Percent Volatile:	Not determined.

10 STABILITY AND REACTIVITY

Conditions to Avoid:

Heat. Do not cure a mass larger than 50 grams, larger amounts may exotherm excessively.

Materials to Avoid:

Strong acids. Strong bases. Strong oxidising agents.

Stability and Reactivity:

Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Severe Eye Irritation: Signs/symptoms may include significant redness, swelling, pain, tearing, cloudy appearance of the cornea, and impaired vision.

Effects from Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness.

Effects from Inhalation:

Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Vapours from heated material may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain. Dust from cutting, grinding, sanding or machining may cause irritation of the respiratory system. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, nose and throat pain.

Effects from Ingestion:

Ingestion may cause: Damage to Gastrointestinal Tissues: signs/symptoms can include pain, vomiting, nausea, abdominal tenderness, burns of mouth, difficulty swallowing, blood in vomit, blood in faeces, and ulceration.

12 ECOLOGICAL INFORMATION

Other Effects and Information:

Not determined.

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13 DISPOSAL CONSIDERATIONS

Special Instructions:

Cure (harden, set, or react) the product according to product instructions. As a disposal alternative, incinerate uncured product in an industrial or commercial incinerator. Dispose of completely cured (or polymerised) wastes in a sanitary landfill. Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN 3082

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN 3082
Class: 9
Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (liquid Epoxy resin)

ADR/RID CLASSIFICATION:

Class: 9
ADR classification: M6

ICAO/IATA CLASSIFICATION:

Class: 9
Sub-Risk: Not applicable
Packing Group: III
Proper Shipping Name: Environmentally hazardous substance, liquid, N.O.S (liquid Epoxy resin)

15 REGULATORY INFORMATION

Disclosable Ingredients:

Symbol(s):

(Xi) St. Andrew's Cross (Irritant). (N) Dangerous to environment.

Risk Phrases:

(R41) Risk of serious damage to eyes. (R38) Irritating to skin. (R43) May cause sensitisation by skin contact. (51/53) Toxic to aquatic organisms. May cause long-term adverse

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effects in the aquatic environment.

Safety Phrases:

Do not breathe vapour. Use only in well ventilated areas.
Avoid contact with the skin and eyes. Wear suitable gloves and eye and face protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of soap and water.
Contains Epoxy Resins. See information supplied by manufacturer. Avoid release to the environment. Refer to special instructions/safety data sheets.

16 OTHER INFORMATION

Regulatory Information:

The following UK Regulations as amended may affect the product as supplied: The Chemicals (Hazard Information and Packaging for supply) Regulations, as amended. The Carriage of Dangerous Goods (Classification, Packaging and Labelling) and use of Transportable Pressure Receptacles Regulations 1996, as amended. Carriage of Dangerous Goods by Road regulations, 1996, as amended. The Control of Substances Hazardous to Health Regulations 1999 as amended. The Special Waste Regulations 1996, as amended. The Environmental Protection Act, 1990 The Health and Safety at Work Act, 1974.

Reissue date/Reason for reissue.
Deleted 3M stock number.

Intended Use of Product:

A structural adhesive to make strong bonded joints equivalent to welding or mechanical fastenings.

The information on this Data Sheet is based on our experience and is correct to the best of our knowledge at the date of publication, but we do not accept any liability for any loss, damage or injury resulting from its use (except as required by law). The information may not be valid for any use not referred to in this Data Sheet or use of the product in combination with other materials. For these reasons, it is important that customers carry out their own test to satisfy themselves as to the suitability of the product for their own intended applications.

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