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MATERIAL SAFETY DATA SHEET

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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
SCOTCHWELD (TM) EPX DP-490 DUO PACK

3M Product ID:
GS-2000-2717-4 FS-9100-2418-1 FS-9100-2878-6
FS-9100-3445-3

2 COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient name and classification | CAS number | Percentage |
|--|------------|-------------|
| PART A (XA-9321) | --- | |
| ALIPHATIC POLYMER DIAMINE | 68911-25-1 | 55.0 - 60.0 |
| EU Hazard Symbols and Risk Phrases: Xi; R:41-38-43 (3M Classified) | | |
| 2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL | 90-72-2 | 10.0 - 15.0 |
| EU Hazard Symbols and Risk Phrases: Xn; R:22-36/38 | | |
| MODIFIED ACRYLONITRILE BUTADIENE RUBBER | --- | 10.0 - 15.0 |
| AMORPHOUS SILICONE DIOXIDE | 67762-90-7 | 5.0 - 10.0 |
| 4,7,10-TRIOXATRIDECANE-1,13-DIAMINE | 4246-51-9 | 5.0 - 10.0 |
| EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (C; R:34-52/53) | | |
| TITANIUM DIOXIDE | 13463-67-7 | 1.0 - 5.0 |
| PART B (XA-9320) | --- | |
| EPOXY RESIN BLEND | --- | 70.0 - 75.0 |
| ACRYLATE POLYMER | --- | 15.0 - 20.0 |
| AMORPHOUS SILICONE DIOXIDE | 67762-90-7 | 1.0 - 5.0 |
| GLASS BUBBLES | --- | 1.0 - 5.0 |
| CARBON BLACK | 1333-86-4 | 1.0 - 5.0 |
| WETTING AGENT | --- | 1.0 |

3 HAZARDS IDENTIFICATION

Critical hazards:
Corrosive. Dangerous to environment. Causes burns. 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.

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 and oxides of nitrogen.

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 information in section 8.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:
Avoid eye contact. Wear vented goggles or safety glasses with side shields during operations in which exposure is likely.

Hand Protection:
Wear appropriate gloves when handling this material. A pair of gloves made from one of the following materials is 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 grinding, cutting or sanding cured material. Use in a well-ventilated area. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Exposure Limits:

2,4,6-TRIS(DIMETHYLAMINOMETHYL) PHENOL (90-72-2)
CMRG TWA Exposure Limit: 5 ppm

TITANIUM DIOXIDE (13463-67-7)
UK HSE TWA: 10 mg/m3 Total inhalable dust; 4 mg/m3 Respirable dust OES

CARBON BLACK (1333-86-4)
UK HSE TWA: 3.5 mg/m³ OES
UK HSE STEL: 7 mg/m³ OES

9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|------------------------------|---|
| Appearance and Odour: | Part A is a white paste, Part B is a black paste. |
| pH: | Not applicable |
| Boiling point/boiling range: | Not determined. |
| Melting point/melting range: | Not determined. |
| Flash point: | Greater than 100.00 C |
| Autoflammability: | Not determined. |
| Vapour pressure: | Not determined. |
| Water Solubility: | Nil |
| Specific gravity: | Approximately 1.050 Water=1 |
| Vapour density: | Not determined. |
| Volatile organic compounds: | Not determined. |
| Evaporation rate: | Not determined. |
| Viscosity: | Not determined. |
| Percent Volatile: | |

10 STABILITY AND REACTIVITY

Conditions to Avoid:
Heat

Materials to Avoid:
Strong acids. Strong bases. Strong oxidising agents.

Hazardous Decomposition:
Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

Effects from Eye Contact:

Corrosive (Eye Burns): Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.

Effects from Skin Contact:

Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching. Corrosive (Skin Burns): Signs/symptoms may include localised redness, swelling, itching, intense pain, blistering, ulceration, and tissue destruction.

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. Coughing up blood, and nonrespiratory effects such as painful and watery eyes.

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.

Carcinogenicity:

WARNING: Contains a chemical which can cause cancer. CARBON BLACK(1333-86-4) (IARC possible human carcinogen 2B)

12 ECOLOGICAL INFORMATION

Other Effects and Information:

Not determined.

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: UN3267

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN3267

Class: 8.0

Packing Group: II

Proper Shipping Name: Corrosive Liquid, Basic,
Organic, N.O.S.(2,4,6 -
tris{(dimethylamino) methyl}
phenolCDG-ROAD (if applicable) If the product is in container
size of 10 litres or more
CDG-ROAD applies.

ADR/RID CLASSIFICATION:

Class: 8.0

Item Number: 56b

ICAO/IATA CLASSIFICATION:

Class: 8.0

Sub-Risk: Not applicable

Packing Group: II

Proper Shipping Name: Corrosive Liquid, Basic,
Organic, N.O.S.(2,4,6 -
tris{(dimethylamino) methyl}
phenol-----

15 REGULATORY INFORMATION

Symbol(s):

Hand and Testube (Corrosive) N Dangerous to environment.

Risk Phrases:

Causes burns. May cause sensitisation by skin contact. Toxic
to aquatic organisms. May cause long-term adverse effects in
the aquatic environment.

Safety Phrases:

Avoid contact with the skin and eyes. Wear suitable protective clothing, 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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). 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 Petroleum (Consolidation) Act 1928. 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.
Removed 3M ID stock number.

Intended Use of Product:

This is a two-part structural adhesive.

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.