

3M UK PLC
3M CENTRE, CAIN RD,
BRACKNELL, BERKSHIRE, RG12 8HT
Tel: 01344 858000

3M IRELAND
3M HOUSE, ADELPHI CENTRE,
DUN LAOGHAIRE, CO. DUBLIN
Tel: 01 2803555

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Kit MSDS
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Document id : 09-4231-8 Issue date : 05/10/2005
Version : 10.00 Supersedes date : 13/04/2005

1 INFORMATION REGARDING KIT

Dear Customer,

This is the cover sheet for the KIT MSDS.

You will find the document numbers of the MSDS that belong to the kit here on this page.

Tradename:

3M(TM) PANEL BONDING ADHESIVE, P.N. 08115 KIT

3M Product ID:

FS-9100-3423-0

Kit Components

09-4229-2 3M(TM) PANEL BONDING ADHESIVE - ACCELERATOR, P.N. 08115

09-4230-0 3M(TM) PANEL BONDING ADHESIVE - BASE, P.N. 08115

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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Tel: 01 2803555

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MATERIAL SAFETY DATA SHEET

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Document id : 09-4229-2 Issue date : 13/04/2005
Version : 11.00 Supersedes date : 12/04/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M(TM) PANEL BONDING ADHESIVE - ACCELERATOR, P.N. 08115

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
POLYMERIC DIAMIDE EU Hazard Symbols and Risk Phrases: EU - 3M Classified (Xi; R:38-41-43)	68911-25-1	15 - 40
FUSED SILICA Regulatory Lists: IARC(Group 2B) NTPCARCIN(Anticipated human carcinogen) IARC(Group 2B) - Category: GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE) NTPCARCIN(Anticipated human carcinogen) - Category: GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	60676-86-0	10 - 30
BUTADIENE ACRYLONITRILE COPOLYMER BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE GLYCOL EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (C; R:34-52/53)	68683-29-4 4246-51-9	10 - 30 7 - 13
TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL EU Hazard Symbols and Risk Phrases: EU - Adaptation 21 (Xn,Xi; R:22-36-38)	90-72-2	5 - 10
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA INORGANIC SALT AMINE EPOXY CURING AGENT EU Hazard Symbols and Risk Phrases: EU - 3M Classified (C; R:34)	67762-90-7 --- 288-32-4	1 - 5 1 - 5 1 - 5
N-AMINOETHYLPIPERAZINE EU Hazard Symbols and Risk Phrases: EU - Adaptation 26 (Xn,C; R:21-22-34-43-52-53)	140-31-8	0.1 - 1
TOLUENE EU Hazard Symbols and Risk Phrases: EU - Adaptation 29	108-88-3	0.411

(F,Xi,Xn; R:11-38-48/20-Repr.Cat.3;63-65-67)
BIS[(DIMETHYLAMINO)METHYL]PHENOL 71074-89-0 0.409
EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (C;
R:34-43)
QUARTZ SILICA 14808-60-7 0.02056
Regulatory Lists: IARC(Group 1) IARC (Group 1) - Category:
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF
RESPIRABLE SIZE)
NTPCARCIN (Known human carcinogen) NTPCARCIN (Known human
carcinogen) - Category: SILICA, CRYSTALLINE (AIRBORNE
PARTICLES OF RESPIRABLE SIZE)
EU Hazard Symbols and Risk Phrases: EU - Vendor Classified
(Xn; R:48/20)
BENZENE 71-43-2 0.0001233
Regulatory Lists: IARC(Group 1) NTPCARCIN(Known human
carcinogen)
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29
(F,Xi,T; R:11-36-38-Carc.Cat.1;45-Muta.Cat.2;46-48/
23-48/24-48/25-65)

3 HAZARDS IDENTIFICATION

Critical hazards:

Corrosive. Causes burns. May cause sensitisation by skin contact.

4 FIRST-AID MEASURES

Eye Contact:

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

Skin Contact:

Immediately flush skin with large amounts of water for at least 15 minutes. Get immediate medical attention. Remove contaminated clothing and shoes. Wash contaminated clothing and shoes before reuse.

Inhalation:

Get immediate medical attention. Remove person to fresh air.

Ingestion:

Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards:

No unusual fire or explosion hazards are anticipated.

Hazardous Decomposition:

Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Wear full protective equipment and a self-contained breathing apparatus. Water or foam may cause frothing.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Refer to other sections of this Material Safety Data Sheet for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

Methods for Cleaning up:

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Place in a metal container approved for use in transportation by appropriate authorities. The container must be lined with polyethylene plastic or contain a plastic drum liner made of polyethylene. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible. Clean up residue with an appropriate organic solvent. Read and follow safety precautions on the solvent label and health and safety data sheet. Collect the resulting residue containing solution. Cover, but do not seal for 48 hours. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Incompatible Materials/Conditions:

Store away from heat. Store out of direct sunlight. Store away from oxidising agents.

Ventilation:

Keep container in a well-ventilated area.

Precautions for Safe Handling:

Contents may be under pressure, open carefully. Keep container tightly closed. For additional health and precautionary information, including air monitoring methodology, contact 3M. Avoid contact with oxidising agents.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact. Avoid eye contact with vapours, mists, or spray. The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields. Full faceshield Indirect vented goggles.

Hand Protection:

Select and use gloves and/or protective clothing to prevent skin contact based on the results of an exposure assessment. Consult with your glove and/or protective clothing manufacturer for selection of appropriate compatible materials. The following glove material(s) are recommended: Polyethylene/ethylene vinyl alcohol.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid inhalation of vapours, mists or spray. Avoid inhalation of vapours. Avoid breathing of dust created by cutting, sanding, grinding or machining. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with particulate filters.

Ingestion:

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

Recommended Ventilation:

If exhaust ventilation is not available, use appropriate respiratory protection. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control mist, vapour, or spray. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits:

FUSED SILICA (60676-86-0)

UK HSE TWA: 0.08 mg/m³ respirable dust OES

TRIS(2,4,6-DIMETHYLAMINOMONOMETHYL)PHENOL (90-72-2)

CMRG TWA Exposure Limit: 5 ppm

TOLUENE (108-88-3)

UK HSE TWA: 50 ppm; 191 mg/m³ skin OES

UK HSE STEL: 150 ppm; 574 mg/m³ skin OES

QUARTZ SILICA (14808-60-7)

UK HSE TWA: 0.4 mg/m³ respirable dust MEL

BENZENE (71-43-2)

UK HSE TWA: 5 ppm; 16 mg/m³ MEL

EEC Exposure Limit: EC List 1, Category 1, Carcinogen

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Tan viscous liquid with slight amine odor.

pH: Not applicable

Boiling point/boiling range: > 110 C

Melting point/melting range: Not applicable

Flash point: 110 C CC

Autoflammability: Not determined

Vapour pressure: < 200 mmHg, @ 20 C

Water Solubility: Negligible

Specific gravity: Approximately 1.2

Vapour density: Not determined

Volatile organic compounds: Not determined

Evaporation rate: < 1
Viscosity: > 200 centistoke
Percent Volatile: Negligible

10 STABILITY AND REACTIVITY

Materials to Avoid:
Strong oxidising agents.

Hazardous Decomposition:
Hazardous polymerisation will not occur. Stable.

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. During grinding, scraping, sanding: Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

Effects from Ingestion:

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Sensitisation Information:

Persons previously sensitised to amines may develop a cross-sensitisation reaction to certain other amines.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Reproductive Effects:

Contains a chemical or chemicals which can cause birth defects or other reproductive harm.

Other Effects and Information:

Prolonged or repeated exposure may cause: Neurological Effects: Signs/symptoms may include personality changes, lack of coordination, sensory loss, tingling or numbness of the extremities, weakness and tremors.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

Handling this product according to recommendations is important to minimise release to the environment. It is recommended that the environmental information included in this section be used to help determine appropriate handling of this product for your uses. Risk for this product has been assigned based on use in a two-part system and in industrial settings only. Risk does not apply to Part A or B individually.

ENVIRONMENTAL FATE AND EFFECTS (GENERAL): The components labeled 'No information' have no environmental fate and effects data available. The components labeled 'polymers' are likely to have insignificant toxicity to aquatic organisms because polymers generally have high molecular weights, are stable, and insoluble in water. Polymers generally don't biodegrade or bioconcentrate. BIODEGRADATION: BIOWIN, a model developed by Syracuse Research Corporation, indicates the components labeled 'BIOWIN readily' are likely to be readily biodegradable. Biodegradation is expected to be complete in wastewater treatment and rapid in the environment. BIOWIN, a model developed by Syracuse Research Corporation, indicates the components labeled 'BIOWIN slow' are likely to be slowly or non-biodegradable. Biodegradation may be slow or absent in wastewater treatment and the environment. The components labeled 'inorganic' do not biodegrade, but may be removed by other mechanisms. The components labeled 'insignificant biodegradation' did not degrade significantly in ready biodegradation tests. ESTIMATED PRODUCT AQUATIC TOXICITY: Not enough information was available to calculate the ecotoxicity of this product. WASTEWATER TREATMENT DATA: There was no data available on the effects or potential effects of this product on wastewater treatment organisms. BIOCONCENTRATION: The components labeled 'Insufficient BCF information' have little or no information on their potential to bioconcentrate or accumulate in aquatic organisms. The components labeled 'Log Kow <3i have measured or calculated log Kow values <3 indicating they are unlikely to bioconcentrate to high concentrations in aquatic organisms by partitioning into lipid tissues. LABELLED COMPONENTS (09-4229-2 Accelerator): No information: Polymeric Diamide (68541-13-9); Inorganic Salt - NJ Trade Secret Registry No. 04499600-6317 (Trade Secret) Polymers: Butadiene Acrylonitrile Copolymer (68683-29-4); Dimethyl Siloxane, Reaction Product With Silica (67762-90-7) BIOWIN readily: Amine Epoxy Curing Agent (288-32-4) BIOWIN slow: Tris (2,4,6 Dimethylaminomonomethyl)Phenol (DMP-30) (90-72-2) Inorganic: Amorphous Silica, Crystalline Free (60676-86-0); Quartz Silica (14808-60-7) Insignificant biodegradation: Bis(3-Aminopropyl) Ether of Diethylene Glycol (4246-51-9) Insufficient BCF information: Amorphous Silica, Crystalline Free (60676-86-0); Quartz Silica (14808-60-7) Log Kow <3: Tris(2,4,6 -Dimethylaminomonomethyl)Phenol (DMP-30) (90-72-2); Bis(3-Aminopropyl) Ether of Diethylene Glycol (4246-51-9); Amine Epoxy Curing Agent (288-32-4)

Other Effects and Information:

Take precautions to prevent direct release of this product to the environment.

13 DISPOSAL CONSIDERATIONS

Product as Sold:

Dispose of completely cured (or polymerised) wastes in a sanitary landfill. Incinerate uncured product in a permitted hazardous waste incinerator in the presence of a combustible material. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

Special Instructions:

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.(BIS(3-AMINOPROPYL)
ETHER OF DIETHYLENE GLYCOL &
POLYMERIC DIAMIDE

ADR/RID CLASSIFICATION:

Class: 8.0

ADR classification: C7

ICAO/IATA CLASSIFICATION:

Class: 8.0

Sub-Risk: Not applicable

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, BASIC,
ORGANIC,
N.O.S.(BIS(3-AMINOPROPYL)
ETHER OF DIETHYLENE GLYCOL &
POLYMERIC DIAMIDE

15 REGULATORY INFORMATION

Disclosable Ingredients:

POLYMERIC DIAMIDE; BIS(3-AMINOPROPYL) ETHER OF DIETHYLENE
GLYCOL; N-AMINOETHYLPIPERAZINE;
BIS[(DIMETHYLAMINO)METHYL]PHENOL.

Symbol(s):

(C)Hand and Testube (Corrosive).

Risk Phrases:

(R34) Causes burns. (R43) May cause sensitisation by skin contact.

Safety Phrases:

Do not breathe vapour. Use only in well ventilated areas.
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, wash immediately with plenty of water for 15 minutes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Keep out of the reach of children.

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.

Updated section 2.

Intended Use of Product:

Structural adhesive for metal bonding in automotive industry.

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 DUN LAOGHAIRE, CO. DUBLIN
 Tel: 01 2803555

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MATERIAL SAFETY DATA SHEET

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Document id : 09-4230-0 Issue date : 05/10/2005
 Version : 8.00 Supersedes date : 08/09/2004

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
 3M(TM) PANEL BONDING ADHESIVE - BASE, P.N. 08115

3M Product ID:

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
4,4'-ISOPROPYLIDENEDIPHENOL -EPICHLOROHYDRIN POLYMER EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (Xi,N; R:36-38-43-51/53)	25068-38-6	30 - 60
GLASS BEADS	65997-17-3	10 - 20
FUSED SILICA Regulatory Lists: IARC(Group 2B) NTPCARCIN(Anticipated human carcinogen) IARC(Group 2B) - Category: GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE) NTPCARCIN(Anticipated human carcinogen) - Category: GLASSWOOL FIBERS (AIRBORNE PARTICLES OF RESPIRABLE SIZE)	60676-86-0	7 - 13
1,4-BIS[(2,3-EPOXYPROPOXY) METHYL]CYCLOHEXANE EU Hazard Symbols and Risk Phrases: EU - Vendor classification (Xi; R:36-38-43)	14228-73-0	7 - 13
METHYL METHACRYLATE-BUTADIENE -STYRENE POLYMER	25053-09-2	5 - 10
SILICA	7631-86-9	1 - 5
DIMETHYL SILOXANE, REACTION PRODUCT WITH SILICA	67762-90-7	0.5 - 1.5
3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER EU Hazard Symbols and Risk Phrases: EU - Vendor Classified (Xi, N; R:36-38-51/53)	2530-83-8	0.5 - 1.5
CARBON BLACK	1333-86-4	0.47
2,6-DI-TERT-BUTYL-P-CRESOL	128-37-0	0.1786
ALLYL GLYCIDYL ETHER EU Hazard Symbols and Risk Phrases: EU - Adaptation 28 (Xi,Xn; R:10-20-22-37-38-Carc.Cat.3;40-41-43-52-53- Repr.Cat.3;62-Muta.Cat.3;68)	106-92-3	0.0149
QUARTZ SILICA	14808-60-7	0.01192

Regulatory Lists: IARC(Group 1) IARC (Group 1) - Category:
SILICA, CRYSTALLINE (AIRBORNE PARTICLES OF
RESPIRABLE SIZE) NTPCARCIN (Known human carcinogen) NTPCARCIN
(Known human carcinogen) - Category: SILICA, CRYSTALLINE
(AIRBORNE PARTICLES OF RESPIRABLE SIZE)
EU Hazard Symbols and Risk Phrases: EU - Vendor Classified
(Xn; R:48/20)

3 HAZARDS IDENTIFICATION

Critical hazards:

Irritant. Dangerous to environment. Irritating to eyes and 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:

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

Skin Contact:

Remove contaminated clothing and shoes. Immediately flush skin with large amounts of water. Wash contaminated clothing and shoes before reuse. If signs/symptoms develop, get medical attention.

Inhalation:

Remove person to fresh air. If signs/symptoms develop, get medical attention.

Ingestion:

Do not induce vomiting. Get immediate medical attention. Give victim two glasses of water. Never give anything by mouth to an unconscious person.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

Exposure Hazards:

Non-flammable: ordinary combustible material.

Hazardous Decomposition:

Aldehydes. Carbon Monoxide, Carbon Dioxide.

Fire-Fighting Procedures:

Wear full protective equipment and a self-contained breathing apparatus. Water may not effectively extinguish fire; however, it should be used to keep fire-exposed containers and surfaces cool and prevent explosive rupture.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

For larger spills, cover drains and build dykes to prevent entry into sewer systems or bodies of water. Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Ventilate the area with fresh air. Contain spill. Remember, adding an absorbent material does not remove a toxic, corrosivity or flammability hazard. Collect as much of the spilled material as possible. Clean up residue with water. Collect the resulting residue containing solution. Place in a closed container approved for transportation by appropriate authorities. Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

Incompatible Materials/Conditions:

Store away from heat.

Precautions for Safe Handling:

For additional health and precautionary information, including air monitoring methodology, contact 3M. Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact. The following should be worn alone or in combination, as appropriate to prevent eye contact: Safety glasses with side shields. Indirect vented goggles.

Hand Protection:

The following glove material(s) are recommended: Neoprene, Nitrile rubber.

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid inhalation of vapours, mists or spray. Avoid breathing of dust created by cutting, sanding, grinding or machining. Select one of the following approved respirators based on airborne concentration of contaminants and in accordance with regulations: Half facepiece or fullface air-purifying respirator with particulate filters.

Ingestion:

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

Recommended Ventilation:

If exhaust ventilation is not available, use appropriate respiratory protection. Use general dilution ventilation and/or local exhaust ventilation to control airborne exposures to below Occupational Exposure Limits and/or control dust, fume, or airborne particles. If ventilation is not adequate, use respiratory protection equipment. Use general dilution ventilation and/or local exhaust ventilation to control

airborne exposures to below Occupational Exposure Limits. If ventilation is not adequate, use respiratory protection equipment.

Exposure Limits:

GLASS BEADS (65997-17-3)

HSE WEL TWA: UK HSE TWA Exposure limit: 10mg/m³ as total inhalable dust.

UK HSE TWA Exposure limit: 4mg/m³ as total respirable dust.

3M TWA Exposure Limit: 10 mg/m³ as dust

FUSED SILICA (60676-86-0)

HSE WEL TWA: 0.08 mg/m³ respirable dust OES

SILICA (7631-86-9)

HSE WEL TWA: 6 mg/m³ Total inhalable dust; 3 mg/m³

Respirable dust OES

3-(TRIMETHOXYSILYL)PROPYL GLYCIDYL ETHER (2530-83-8)

CMRG TWA Exposure Limit: 5 ppm

CARBON BLACK (1333-86-4)

HSE WEL TWA: 3.5 mg/m³ OES

HSE WEL STEL: 7 mg/m³ OES

2,6-DI-TERT-BUTYL-P-CRESOL (128-37-0)

HSE WEL TWA: 10 mg/m³ OES

ALLYL GLYCIDYL ETHER (106-92-3)

HSE WEL TWA: 5 ppm; 24 mg/m³ skin OES

HSE WEL STEL: 10 ppm; 47 mg/m³ skin OES

QUARTZ SILICA (14808-60-7)

HSE WEL TWA: 0.4 mg/m³ respirable dust MEL

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: White viscous liquid.

pH: Not applicable

Boiling point/boiling range: > 148 C

Melting point/melting range: Not applicable

Flash point: > 104 C CC

Autoflammability: Not determined

Vapour pressure: < 5 mmHg @ 20 C

Water Solubility: Negligible

Specific gravity: Approximately 1.2

Vapour density: Not determined

Volatile organic compounds: Not determined

Evaporation rate: < 1

Viscosity: > 200 centistoke

Percent Volatile: Negligible

10 STABILITY AND REACTIVITY

Conditions to Avoid:
Sparks and/or Flames.

Materials to Avoid:

None.

Hazardous Decomposition:

Hazardous polymerisation will not occur. Stable.

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:

May be absorbed through skin and cause target organ effects. Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

Effects from Inhalation:

May be absorbed following inhalation and cause target organ effects. Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. During grinding, scraping, sanding: Silicosis: Signs/symptoms may include breathlessness, weakness, chest pain, persistent cough, increased amounts of sputum, and heart disease.

Effects from Ingestion:

May be absorbed following ingestion and cause target organ effects. Ingestion may cause: Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

Other Effects and Information:

Central Nervous System (CNS) Depression: Signs/symptoms may include headache, dizziness, drowsiness, incoordination, nausea, slowed reaction time, slurred speech, giddiness, and unconsciousness.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:

Not determined.

Ecofate Data:

Not determined.

Special statements for 2001/58/EC:

Handling this product according to recommendations is important to minimise release to the environment. It is recommended that the environmental information included in this section be used to help determine appropriate handling of this product for your uses.

Other Effects and Information:

Take precautions to prevent direct release of this product to the environment.

13 DISPOSAL CONSIDERATIONS

Product as Sold:

Dispose of completely cured (or polymerised) wastes in a sanitary landfill. As a disposal alternative, dispose of waste product in a facility permitted to accept chemical waste.

Special Instructions:

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.(BIS(3-AMINOPROPYL)
ETHER OF DIETHYLENE GLYCOL &
POLYMERIC DIAMIDE

ADR/RID CLASSIFICATION:

Class: 8.0

ADR classification: C7

ICAO/IATA CLASSIFICATION:

Class: 8.0

Sub-Risk: Not applicable

Packing Group: II

Proper Shipping Name: CORROSIVE LIQUID, BASIC,
ORGANIC,
N.O.S.(BIS(3-AMINOPROPYL)
ETHER OF DIETHYLENE GLYCOL &
POLYMERIC DIAMIDE

15 REGULATORY INFORMATION

Disclosable Ingredients:

4,4'-ISOPROPYLIDENEDIPHENOL-EPICHLOROXYDRIN POLYMER

Symbol(s):

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

Risk Phrases:

(R36/38) Irritating to eyes and skin. (R43) May cause sensitisation by skin contact. (51/53) Toxic to aquatic organisms. May cause long-term adverse 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. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of 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.

Updated sections 5,7 8, 9, 10, 11, 14.

Intended Use of Product:

Structural adhesive for metal bonding in automotive industry.

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.