



3M United Kingdom Plc
3M Centre Cain Road
BRACKNELL Berkshire
RG12 8HT

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Safety Data Sheet
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MSDS ID 06-2072-4 Release Date: 02/06/09 Version : 010.00
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1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Tradename:

3M Polyurethane General Purpose Seam Sealer, Black 3M 08694,08789
and 08793

1.2 Intended Use of Product:

General purpose professional black sealer with good adhesion to
bare, primed and abraded metal, zinc coating, aluminium, plastic,
rubber and wood.

1.3 3M Product ID:

XS-0034-9091-8, XS-0034-9149-4, XS-0034-9183-3

1.4 Contact Address:

3M United Kingdom PLC	3M Ireland Ltd.
3M Centre, Cain Road,	The Iveagh Building, The Park
Bracknell, Berkshire, RG12 8HT	Carrickmines, Dublin 18

1.5 E-mail Address and Emergency Contact Number:

tox.uk@mmm.com
+44 (0)1344 858 000

2 HAZARDS IDENTIFICATION

Risk Phrases:

R42 May cause sensitisation by inhalation.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
Urethane polymer	68130-40-5	25 - 35

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EU Number: EINECS 293-728-5		
Xylene	1330-20-7	1 - 10
EU Number: EINECS 215-535-7		
EU Classification: R10; Xi: R38; Xn: R20/21		
EU Nota: C		
Calcium dihydroxide	1305-62-0	1 - 5
EU Number: EINECS 215-137-3		
Vendor Classification: Xi: R41		
Triiron tetraoxide	1317-61-9	1 - 5
EU Number: EINECS 215-277-5		
Calcium oxide	1305-78-8	0 - 5
EU Number: EINECS 215-138-9		
3M Classification: C: R34; Xi: R37		
Distillates (petroleum), hydrotreated light	64742-47-8	0 - 5
EU Number: EINECS 265-149-8		
EU Classification: Xn: R65		
Concawe Report 01/54: N: R51/53		
3M Classification: R66-67		
EU Nota: 4, H		
Diphenylmethane-4,4'-diisocyanate	101-68-8	< 1
EU Number: EINECS 202-966-0		
EU Classification: Carc.Cat.3: R40; Xn: R20-48/20; Xi: R36/37/38; R42/43		
EU Nota: 2, C		
§3-(2,3-Epoxypropoxy)propyl trimethoxysilane	2530-83-8	< 1
EU Number: EINECS 219-784-2		
3M Classification: Xi: R38-41; R52/53		
Carbon black	1333-86-4	< 1
EU Number: EINECS 215-609-9		
Octadecyl 3-(3,5-di-tert-butyl-4- hydroxyphenyl)propionate	2082-79-3	< 1
EU Number: EINECS 218-216-0		
3M Classification: R43-52/53		

4 FIRST-AID MEASURES

4.1 Eye Contact:

Flush eyes with large amounts of water. If signs/symptoms persist, get medical attention.

4.2 Skin Contact:

Remove contaminated clothing and shoes. Immediately wash skin with large amounts of soap and water. Get medical attention. Wash

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contaminated clothing and shoes before reuse.

4.3 Inhalation:

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

4.4 Ingestion:

Do not induce vomiting unless instructed to do so by medical personnel. Give victim two glasses of water. Never give anything by mouth to an unconscious person. Get medical attention.

5 FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media:

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

5.2 Unsuitable Extinguishing Media:

Not specified.

5.3 Exposure Hazards:

No unusual fire or explosion hazards are anticipated.

5.4 Combustion Products from Fire:

Not determined.

5.5 Fire-Fighting Procedures:

Wear full protective equipment and a self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions:

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

6.2 Methods for Cleaning up:

Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools.

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Ventilate the area with fresh air.
Pour isocyanate decontaminant solution (90% water, 8% concentrated ammonia, 2% detergent) on spill and allow to react for 10 minutes. Or pour water on spill and allow to react for more than 30 minutes. Cover with absorbent material. Place in a container approved for transportation by appropriate authorities, but do not seal the container for 48 hours to avoid pressure build-up.
Clean up residue with an appropriate solvent selected by a qualified and authorised person.
Read and follow safety precautions on the solvent label and Safety Data Sheet.
Collect as much of the spilled material as possible using non-sparking tools.
Collect the resulting residue containing solution.
Place in a metal container approved for transportation by appropriate authorities.
Dispose of collected material as soon as possible.

7 HANDLING AND STORAGE

7.1 Precautions for Safe Handling:

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water. Avoid breathing of vapours created during the cure cycle. Avoid eye contact with vapours, mists, or spray. For industrial or professional use only. Do not breathe vapours.

- Explosion Prevention:

Keep away from heat, sparks, open flame, pilot lights and other sources of ignition.

7.2 Precautions for Safe Storage:

Avoid contact with water to prevent potentially violent reaction or fire.

- Incompatible Materials/Conditions:

Store away from acids.
Store away from heat.
Store out of direct sunlight.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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8.1 Recommended Ventilation:

Provide ventilated enclosure for heat curing. Provide appropriate local exhaust for molten or extruded material. Curing enclosures must be exhausted to outdoors or to a suitable emission control device. Do not use in a confined area or areas with little or no air movement. Provide ventilation adequate to control dust concentrations below recommended exposure limits and/or control dust. 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.

8.2 Exposure Limits:

Polyvinyl chloride (9002-86-2)
HSE WEL TWA: 10 mg/m³ (inhalable dust)
4 mg/m³ (respirable dust)

Xylene (1330-20-7)
HSE WEL TWA: 220 mg/m³; 50 ppm (skin)
HSE WEL STEL: 441 mg/m³; 100 ppm (skin)
IOELV TWA: 221 mg/m³; 50 ppm (skin)
IOELV STEL: 442 mg/m³; 100 ppm (skin)

Calcium dihydroxide (1305-62-0)
HSE WEL TWA: 5 mg/m³
ILV TWA: 5 mg/m³

Calcium oxide (1305-78-8)
HSE WEL TWA: 2 mg/m³

Diphenylmethane-4,4'-diisocyanate (101-68-8)
HSE WEL TWA: 0.02 mg/m³ (as NCO) (asthma)
HSE WEL STEL: 0.07 mg/m³ (as NCO) (asthma)

Carbon black (1333-86-4)
HSE WEL TWA: 3.5 mg/m³
HSE WEL STEL: 7 mg/m³

8.3 Exposure Controls:

8.3.1 Eye Protection:

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

8.3.2 Hand Protection:

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

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8.3.3 Skin Protection:
Avoid skin contact.

8.3.4 Respiratory Protection:
Avoid breathing of vapours created during the cure cycle. Do not breathe vapours.
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 organic vapour cartridges and P2 particulate prefilters.

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

9 PHYSICAL AND CHEMICAL PROPERTIES

- Appearance and Odour:	Black paste with a solvent odour.
- pH:	Not determined
- Boiling point/boiling range:	Not determined
- Melting point/melting range:	Not determined
- Flash point:	40 - 60 °C
- Autoflammability:	>= 200 °C
- Flammable Limits - LEL:	>= 0.6 % by volume
- Flammable Limits - UEL:	<= 8 % by volume
- Vapour pressure:	1100 Pa
- Water Solubility:	Negligible
- Specific gravity:	1.17 (Water=1)
- Vapour density:	4 (Air=1)
- Evaporation rate:	Not determined
- Viscosity:	Not determined

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- Percent Volatile: 10 %

10 STABILITY AND REACTIVITY

10.1 Stability and Reactivity:

Stable. Hazardous polymerisation will not occur.

10.2 Conditions to Avoid:

Heat.
Sparks and/or flames.

10.3 Materials to Avoid:

Alcohols.
Amines.
Water.
Strong acids.
Strong bases.
Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure build-up.

10.4 Hazardous Decomposition:

Oxides of nitrogen.
Carbon monoxide.
Carbon dioxide.

11 TOXICOLOGICAL INFORMATION

11.1 Effects from Eye Contact:

- Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

11.2 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.

11.3 Effects from Inhalation:

- Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.

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- Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.

11.4 Effects from Ingestion:

- Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

11.5 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.

- Sensitisation Information:

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

- Carcinogenicity:

Contains a chemical or chemicals which can cause cancer.

12 ECOLOGICAL INFORMATION

12.1 Environmental Data:

Not determined.

12.2 Mobility in Soil and Water:

Not determined.

12.3 Persistence/Biodegradability:

Not determined.

12.4 Bioaccumulation Potential:

Not determined.

12.5 Ecotoxicity Data:

Not determined.

12.6 Ecofate Data:

Not determined.

12.7 Special statements for 2001/58/EC:

One or more components of this product have significant known or predicted environmental hazards, but a conservative assessment indicates a low environmental risk. Intended use and proper

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disposal are unlikely to cause the environmentally hazardous component(s) to enter the environment in quantities or by routes that could cause the adverse environmental impacts.

12.8 Other Effects and Information:

Take precautions to prevent direct release of this substance to the environment. Product usages, or other lifecycle stages, are expected to release volatile organic compounds (VOCs) to the atmosphere. Regulations may restrict the release of VOCs because they contribute to the formation of ozone and smog. Regulatory definitions for VOC vary. Because of smog and other impacts, releases through evaporation or other means should be minimised to the extent possible.

13 DISPOSAL CONSIDERATIONS

13.1 Product as Sold:

Incinerate in a permitted hazardous waste incinerator. As a disposal alternative, dispose of waste product in a permitted hazardous waste facility.

13.2 Product in Use:

Not determined.

13.3 Product after Use:

Not determined.

13.4 Product Packaging:

Not determined.

13.5 Potential for Recycling:

Not determined.

13.6 Special Instructions:

Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

Transport Details:

Please see the Annex to this document in which all transportation information is given.

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15 REGULATORY INFORMATION

Label Version Number:
004.02

Symbol(s):
Xn Harmful.

Risk Phrases:
R42 May cause sensitisation by inhalation.

Safety Phrases:
S23A Do not breathe vapour.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

3M Contains isocyanates. See information supplied by manufacturer.

Disclosable Ingredients:
Diphenylmethane-4,4'-diisocyanate.

16 OTHER INFORMATION

16.1 Complete list of risk phrases:

R10 Flammable.
R20 Harmful by inhalation.
R21 Harmful in contact with skin.
R34 Causes burns.
R36 Irritating to eyes.
R37 Irritating to respiratory system.
R38 Irritating to skin.
R40 Limited evidence of a carcinogenic effect.
R41 Risk of serious damage to eyes.
R42 May cause sensitisation by inhalation.
R43 May cause sensitisation by skin contact.
R48 Danger of serious damage to health by prolonged exposure through inhalation.
R51 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic

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environment.
R65 Harmful; May cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

16.2 Limitations on Use of Product:
For industrial or professional use only.

16.3 Reissue date/Reason for reissue:
Updated sections: 15 & 16.

16.4 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;
The Control of Substances Hazardous to Health Regulations 1999 as amended;
The Special Waste Regulations 1996, as amended;
The Environmental Protection Act, 1990, as amended;
The Health and Safety at Work Act, 1974, as amended.

The information on this Safety 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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This product is not hazardous for transportation.