

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

=====

MATERIAL SAFETY DATA SHEET

=====

Document id : 11-1481-8 Issue date : 15/09/2005
Version : 2.00 Supersedes date : 14/09/2005

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M BRAND AUTO-SEALER 8531 (EC-2153)

3M Product ID:
FS-9100-3111-1

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
TOLUENE	108-88-3	40.0 - 50.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 29 (F,Xi, Xn; R:11-38-48/20-Repr.Cat.3;63-65-67)		
SYNTHETIC RUBBER	---	10.0 - 20.0
AMYL ACETATE	628-63-7	10.0 - 20.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (R:10-66)		
PHENOL-FORMALDEHYDE RESIN	---	10.0 - 20.0
SALICYLIC ACID	69-72-7	1.0 - 5.0
AMORPHOUS SILICA	7631-86-9	1.0 - 5.0
ZINC OXIDE	1314-13-2	1 - 5
EU Hazard Symbols and Risk Phrases: EU - 29th Adaptation (N; R:50/53)		
MAGNESIUM OXIDE	1309-48-4	1 - 5
TITANIUM DIOXIDE	13463-67-7	1.0 - 5.0
2,2'-METHYLENEBIS[6-TERT-BUTYL-P-CRESOL]	119-47-1	Less Than 1.0

3 HAZARDS IDENTIFICATION

Critical hazards:
Highly Flammable. Harmful. Harmful: Danger of serious damage to health by prolonged exposure through inhalation. Vapours may cause drowsiness and dizziness. Irritating to skin. Possible risk of harm to the unborn child. Harmful 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. Get immediate medical attention.

Skin Contact:

Flush skin with large amounts of water. If irritation persists, get immediate medical attention.

Inhalation:

Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

Ingestion:

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

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:

Carbon dioxide, Dry chemical Foam.

Exposure Hazards:

Closed containers exposed to heat from fire may build pressure and explode. Vapours may travel long distances along the ground or floor to an ignition source and flash back.

Hazardous Decomposition:

Carbon Monoxide and Carbon Dioxide. Toxic vapours, Gases or particulates,

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.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Ventilate the area with fresh air. Remove all ignition sources such as flames, smoking materials, and electrical spark sources. Use only non-sparking tools. 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. Collect as much of the spilled material as possible using non-sparking tools. Place in a suitable metal container.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Keep container closed when not in use.

Explosion Prevention:

Flammable liquid and vapour. Keep away from heat, sparks, open

flame, pilot lights and other sources of ignition.

Precautions for Safe Handling:
Keep container tightly closed.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Eye Protection:

Avoid eye contact. Indirect vented goggles. Safety glasses with side shields.

Hand Protection:

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

Skin Protection:

Avoid skin contact.

Respiratory Protection:

Avoid prolonged breathing of vapours.

Ingestion:

Do not ingest. Keep out of the reach of children.

Recommended Ventilation:

Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Exposure Limits:

TOLUENE (108-88-3)

HSE WEL TWA: 50 ppm; 191 mg/m³ skin OES
HSE WEL STEL: 150 ppm; 574 mg/m³ skin OES

AMYL ACETATE (628-63-7)

HSE WEL TWA: 100 ppm; 541 mg/m³ OES
HSE WEL STEL: 150 ppm; 812 mg/m³ OES
EEC Exposure Limit 50ppm; 270mg/m³ 8 hours;
100ppm; 540mg/m³ short term

AMORPHOUS SILICA (7631-86-9)

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

ZINC OXIDE (1314-13-2)

HSE WEL TWA: 5 mg/m³ as fume OES
HSE WEL STEL: 10 mg/m³ as fume OES

MAGNESIUM OXIDE (1309-48-4)

HSE WEL TWA: 4 mg/m³ as Mg fume and respirable dust; 10
mg/m³ Total inhalable dust as Mg OES

HSE WEL STEL: 10 mg/m³ fume and respirable dust as Mg OES

TITANIUM DIOXIDE (13463-67-7)

HSE WEL TWA: 10 mg/m³ Total inhalable dust; 4 mg/m³
Respirable dust OES

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odour: Dark grey paste with solvent
odour.

pH: Not determined

Boiling point/boiling range: Not determined

Melting point/melting range:	Not determined
Flash point:	4 C TCC
Autoflammability:	Not determined
Vapour pressure:	Not determined
Water Solubility:	Not determined
Specific gravity:	0.95, Water=1
Vapour density:	Not determined
Volatile organic compounds:	Not determined
Evaporation rate:	Not determined
Viscosity:	Not determined
Percent Volatile:	Not determined.

10 STABILITY AND REACTIVITY

Conditions to Avoid:
None known.

Materials to Avoid:
None known.

Hazardous Decomposition:
Stable. Hazardous polymerisation will not occur.

11 TOXICOLOGICAL INFORMATION

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

Effects from Skin Contact:
Moderate Skin Irritation: Signs/symptoms may include localised redness, swelling, itching, and dryness. May be absorbed through the skin and produce effects similar to those caused by inhalation and/or ingestion.

Effects from Inhalation:
Single overexposure, above recommended guidelines, may cause:
Central Nervous System Depression: signs/symptoms can include headache, dizziness, drowsiness, incoordination, slowed reaction time, slurred speech, giddiness and unconsciousness.
Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Prolonged or repeated overexposure, above recommended guidelines, may cause: Liver Effects: signs/symptoms can include yellow skin(jaundice) and tenderness of upper abdomen. Central Neuropathy: signs/symptoms can include dizziness, incoordination, visual changes, emotional changes, tremors and convulsions.

Effects from Ingestion:
Ingestion may cause: Gastrointestinal Irritation:
Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting. Central Nervous System Depression:

signs/symptoms can include headache, dizziness, drowsiness, muscular weakness, incoordination, slowed reaction time, fatigue, blurred vision, slurred speech, giddiness, tremors and convulsions.

12 ECOLOGICAL INFORMATION

Other Effects and Information:

Not determined. Since regulations vary, consult applicable regulations or authorities before disposal.

13 DISPOSAL CONSIDERATIONS

Special Instructions:

Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. Dispose of waste product in a facility permitted to accept chemical waste. Since regulations vary, consult applicable regulations or authorities before disposal.

14 TRANSPORT INFORMATION

UN NUMBER:

UN number: UN1133

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number: UN1133

Class: 3.0

Packing Group: II

Proper Shipping Name: Adhesives.

ADR/RID CLASSIFICATION:

Class: 3.0

ADR classification: F 1

ICAO/IATA CLASSIFICATION:

Class: 3.0

Sub-Risk: Not applicable

Packing Group: II

Proper Shipping Name: Adhesives.

15 REGULATORY INFORMATION

Disclosable Ingredients:

TOLUENE; ZINC OXIDE.

Symbol(s):

(F) Flame (Highly Flammable). (Xn) St. Andrew's Cross

(Harmful).

Risk Phrases:

(R11) Highly Flammable. (R48/20) Harmful: Danger of serious damage to health by prolonged exposure through inhalation. (R67) Vapours may cause drowsiness and dizziness. (R38) Irritating to skin. (R63) Possible risk of harm to the unborn child. (R52/53) Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Safety Phrases:

Keep away from sources of ignition - No Smoking. Do not breathe vapour. Use only in well ventilated areas. Avoid contact with the skin and eyes. Wear suitable protective clothing and 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. Avoid release to the environment. Refer to special instructions/safety data sheets. 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.

This is a first issue.

Intended Use of Product:

Sealer.

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.