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MATERIAL SAFETY DATA SHEET

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Document id : 11-7784-9 Issue date : 14/02/2006
Version : 4.00 Supersedes date : 03/02/2006

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION

Tradename:
3M BRAND 'QL' COATING/SEALER UNIPAK (LOW SOLVENT) P/N 08800,
08823

3M Product ID:
FS-9100-3136-8 FS-9100-3139-2

2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name and classification	CAS number	Percentage
PART A	---	Not determined
DIPHENYLMETHANE-4,4-DIISOCYANATE (MDI)	101-68-8	45.0 - 55.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 28 (Xn,Xi; R:20-36-37-38-42-43)		
HIGHER OLIGOMERS OF MDI	---	45.0 - 55.0
PART B	---	Not determined
CALCIUM CARBONATE	1317-65-3	40.0 - 50.0
POLYOLS	---	15.0 - 20.0
CASTOR OIL	8001-79-4	10.0 - 20.0
BENZYL BUTYL PHTHALATE	---	5.0 - 10.0
ETHYL LACTATE	97-64-3	5.0 - 10.0
EU Hazard Symbols and Risk Phrases: EU - Adaptation 25 (Xi; R:10-37-41)		
TITANIUM DIOXIDE	13463-67-7	1.0 - 5.0
AMORPHOUS SILICA	67762-90-7	1.0 - 5.0
ZEOLITE PASTE	---	5.0 - 10.0

3 HAZARDS IDENTIFICATION

Critical hazards:
Harmful. Harmful by inhalation. Irritating to eyes,
respiratory system and skin. May cause sensitisation by
inhalation and skin contact.

4 FIRST-AID MEASURES

Eye Contact:
Immediately flush eyes with large amounts of water. 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:

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:

Water spray, Carbon dioxide, Dry chemical Foam.

Hazardous Decomposition:

Carbon Monoxide and Carbon Dioxide. Oxides of Nitrogen, Hydrogen Cyanide, Isocyanates. 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.

Special Instructions:

None known.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Observe precautions from other sections.

Methods for Cleaning up:

Contain spill. Evacuate unprotected and untrained personnel from hazard area. The spill should be cleaned up by qualified personnel. 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.

7 HANDLING AND STORAGE

Precautions for Safe Storage:

Keep container closed when not in use.

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. Fluoroelastomer.

Skin Protection:

Avoid skin contact. The following protective clothing material(s) are recommended: Apron. Overalls.

Respiratory Protection:

Avoid inhalation of vapours. For dusts, use half-mask dust respirator. 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-mask supplied air respirator.

Ingestion:

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

Recommended Ventilation:

Provide appropriate local exhaust for cutting, grinding, sanding or machining. Use in a well-ventilated area. Provide sufficient ventilation to maintain emissions below recommended exposure limits. If exhaust ventilation is not adequate, use appropriate respiratory protection.

Exposure Limits:

DIPHENYLMETHANE-4,4-DIISOCYANATE (MDI) (101-68-8)

HSE WEL TWA: 0.02 mg/m³ sen MEL

HSE WEL STEL: 0.07 mg/m³ sen MEL

CALCIUM CARBONATE (1317-65-3)

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

Respirable dust 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: Part A - brown; Part B - grey.

pH: Not applicable

Boiling point/boiling range: Not determined

Melting point/melting range: Not determined

Flash point: > 80 C

Autoflammability: Not determined

Vapour pressure: Not applicable

Water Solubility: Moderate

Specific gravity:	Not determined
Vapour density:	Not applicable
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:
Amines. Alcohols. Water. Reaction with water, alcohols and amines is not hazardous if container can vent to the atmosphere to prevent pressure build-up.

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

Effects from Inhalation:
Allergic Respiratory Reaction: Signs/symptoms may include difficulty breathing, wheezing, cough, and tightness of chest.
Upper Respiratory Tract Irritation: Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and 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: Gastrointestinal Irritation:
Signs/symptoms may include abdominal pain, nausea, diarrhoea and vomiting.

12 ECOLOGICAL INFORMATION

Ecotoxicity Data:
Not determined.

Other Effects and Information:
Not determined. Since regulations vary, consult applicable regulations or authorities before disposal.

13 DISPOSAL CONSIDERATIONS

Special Instructions:

Cure (harden, set, or react) the product according to product instructions. Incinerate in a permitted hazardous waste incinerator in the presence of a combustible material. 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: Not forbidden for transportation.

UK ROAD/SEA FREIGHT (IMO) CLASSIFICATION:

Substance Identification Number:

Class:

Packing Group:

Proper Shipping Name:

ADR/RID CLASSIFICATION:

Class:

ADR classification:

ICAO/IATA CLASSIFICATION:

Class:

Sub-Risk:

Packing Group:

Proper Shipping Name:

15 REGULATORY INFORMATION

Disclosable Ingredients:

DIPHENYLMETHANE-4,4-DIISOCYANATE (MDI); ETHYL LACTATE.

Symbol(s):

(Xn) St. Andrew's Cross (Harmful).

Risk Phrases:

(R20) Harmful by inhalation. (R36/37/38) Irritating to eyes, respiratory system and skin. (R42/43) May cause sensitisation by inhalation and skin contact.

Safety Phrases:

Do not breathe vapour or spray. Use only in well ventilated areas. In case of insufficient ventilation, wear suitable respiratory equipment. 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. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Contains isocyanates. See information supplied by manufacturer. Safety data sheet with additional information available on request.

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.
MSDS Re-activated.

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.