Glassbond (NW) Ltd Safety Data Sheet according to regulation (EC) N°1907/2006
Date Revised : 17.07.2009 Revision : 3
Product : **GLASSBOND K183 M**

1 – IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND THE COMPANY / UNDERTAKING

Product name : **GLASSBOND K183 M**
Intended use : Lamp capping adhesive
Colour & appearance : Off White Fine Powder
Packaging : Boxes, Drums, Bags

Company

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Emergency information

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2 - HAZARDS IDENTIFICATION*

HEALTH HAZARD: No known effects on humans from discontinuous use and short term exposure.

PHYSICAL HAZARD: -

ENVIRONMENTAL HAZARD: -

3 - COMPOSITION / INFORMATION ON INGREDIENTS*

Chemical nature : Blend of organic resins and inert inorganic fillers

Hazardous ingredients:

Substance	CAS N°	EC N°	R (Risk) Phrase	% w / w	Classification
Hexamine	100-97-0	202-905-8	42/43, 11	<1	Xn - Harmful F- Flammable

See Section 16 for R phrases specified if hazardous ingredients are listed

4 - FIRST AID MEASURES

General	Immediately remove contaminated clothing, take care not to contaminate unaffected areas.
Inhalation	No emergency care anticipated, other than removal from exposure.
Eyes	Rinse immediately with running water for at least 15 minutes holding the eyelid open; consult an eye specialist.
Skin	Wash thoroughly with water and soap. If irritation persists obtain medical advice.
Ingestion	Immediately rinse the mouth with water and drink plenty of water. Obtain medical attention immediately, show this safety data sheet.
Note to Physician	Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5 - FIRE FIGHTING MEASURES

Suitable extinguishing media:

CO_2 or dry chemical spray, water may help to reduce temperature and extinguish flames.

Specific Hazards:

Harmful vapours. Thermal decomposition or burning may release toxic oxides of nitrogen and other toxic gases.

Protective Equipment:

Use full protective clothing and self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing media must be disposed of in accordance with official regulation.

6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Use personal protective clothing.

Environmental Precautions:

Prevent contamination of soil, drains and surface waters. Do not discharge contaminated water/ fire-fighting water into drains/ surface water/ groundwater.

Methods for Cleaning:

Large spillage	Collect spillage by sweeping up.
Small spillage	Collect spillage by sweeping or industrial vacuum cleaner. Dispose of material in accordance with official regulations.

7 - HANDLING AND STORAGE

Handling:

Ensure thorough ventilation of stores and work areas.

Protection against fire and explosion:

Take precautionary measures against static discharges if delivered in plastic packaging.

Storage:

Keep containers tightly closed, store in a cool dry place. Under normal conditions (21ºC) a shelf life of 12 months or more is possible, higher temperatures and humidity will reduce shelf life and may cause the powder to form lumps.

Protect from temperatures below	: Not applicable
Protect from temperatures above	: 40 °C
Suitable storage materials	: Original containers

8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Components with workplace control parameters

		mg/m³	ppm	
Dust	TWA	10	inhalable	(EH40 UK) OES 8 hr
	TWA	4	respirable	(EH40 UK)
	TWA			(EH40 UK)
	STEL			(EH40 UK)
	TWA			(EH40 UK)
	STEL			(EH40 UK)

Personal Protective Equipment:

Respiratory Protection	In the case of insufficient ventilation or severe dusts Cartridge: e.g. EN143 Type P-S (check with PPE manufacturer)
Eye Protection	Tightly fitting safety goggles (e.g. EN166)
Hand Protection	Gloves: Chemical resistant gloves (e.g. EN374) Butyl rubber: 0.7 mm coating thickness Nitrile rubber: 0.4 mm coating thickness. Check with PPE manufacturer. Replace immediately if signs of degradation are observed.
Body Protection	Wear closed work clothing. Also depending upon activity and possible exposure, e.g. apron, protective boots,
General measures	Handle in accordance with good industrial hygiene and safety practice.

9 - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Fine powder	COLOUR	Off white
ODOUR	None		
pH VALUE	Not available	BOILING POINT/RANGE	Not applicable
VISCOSITY @ 25°C	Not applicable	FLASHPOINT	Not applicable
VAPOUR PRESSURE	Not applicable	FLAMMABILITY	Not applicable
VAPOUR DENSITY	Not applicable	EXPLOSIVE PROPERTIES	Not applicable
EVAPORATION RATE	Not applicable	UPPER EXPLOSIVE LIMIT	Not Available
RELATIVE DENSITY	1.5 g/ml	LOWER EXPLOSIVE LIMIT	Not Available
PARTITION COEFF	Not Available	OXIDIZING PROPERTIES	Not Available
SOLUBILITY IN WATER	<5 % soluble	IGNITION TEMPERATURE	Not Available
MISCIBILITY	Alcohols	AUTOFLAMMABILITY	Not Available
CONDUCTIVITY	Not available	MELTING POINT/RANGE	Not applicable

10 - STABILITY AND REACTIVITY

Stability	Stable under normal conditions of storage and handling.
Hazardous polymerisation	No
Conditions to Avoid	Wet, damp conditions. Do not leave containers open.
Materials to Avoid	Acids
Hazardous Decomposition Products.	No hazardous decomposition products if stored and handled as prescribed/ indicated.

11 - TOXICOLOGICAL INFORMATION*

ACUTE TOXICITY Contains components that are hazardous by the following routes : skin, eye, inhalation and ingestion.

LD_{50} ORAL TOXICITY MOUSE	596	mg/kg	Hexamine
LD_{50} DERMAL TOXICITY		ml/kg	
LC_{50} INHL TOXICITY IN RATS		mg/kg	
LD_{50} ORAL TOXICITY RATS		mg/kg	
LD_{50} DERMAL TOXICITY RABBITS		mg/kg	
LC_{50} INHL TOXICITY IN RATS		mg/kg	

CORROSIVE/ IRRITATION

EYES	Irritating
SKIN	Irritating
INHALATION	-

SENSITISATION

SKIN	Product contains Hexamine which is skin sensitising
INHALATION	Materials of this type are known to cause respiratory allergy in people.

REPEAT DOSE -

TOXICITY -

CARCINOGENICITY

EXPERIENCE IN HUMANS Skin sensitisation might occur in people with hypersensitive skin.

12 - ECOLOGICAL INFORMATION *

Persistance and degradability

MOBILITY	Sinks in water. Partially water soluble. If the product enters soil, it will be mobile and may contaminate groundwater.
DEGRADABILITY	Organic components are biodegradable.

Bio concentration factor	Not Available	
Biological oxygen demand (BOD)	Not Available	mg/ mg/
Chemical oxygen demand (COD)	Not Available	mg/ mg/

Ecotoxicity

LC_{50} Fish	(96 hr)	-	mg/l	
EC_{50} Invertibrates	(48 hr)	10 (hexamine)	mg/l	Daphnia magna
IC_{50} Algae	(72hr)	-	mg/l	Selenastrum capricornutum

Micro organisms/ effect upon activated sludge

EC_{20} Bacteria	(0.5 hr)	-	mg/l	Activated sludge, domestic

Additional information	The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not release untreated into natural waters.

This product has not been tested. The statement has been derived from products of a similar structure and composition.

13 - DISPOSAL CONSIDERATION

The UK Environmental Protection (Duty of Care) regulations (EP) and amendments should be noted (United Kingdom)

Product disposal:
The preparation must be disposed of by special means. Dispose by incineration or landfill via a licensed waste disposal contractor in accordance with local and national regulations.

Container disposal:
Contaminated packaging should be emptied as far as possible, they can then be recycled after being thoroughly cleaned by a licensed contractor. Labels must not be removed from containers until they have been cleaned. Packaging materials that are not contaminated should be treated as household waste or as recycling material.

14 - TRANSPORT INFORMATION

Land Transport	NOT CLASSIFIED
Proper shipping name	
Hazard Class	
Packing group	
Classification code	
Risk number	
ADR/RID label	
ID No	

Inland Waterway Transport	NOT CLASSIFIED
Proper shipping name	
Hazard Class	
Packing group	
ADNR label	
ID No	

Sea Transport	NOT CLASSIFIED
Proper shipping name	
Class	
Packing group	
Marine pollutant	
EmS	
IMDG label	
ID No	

Air Transport	NOT CLASSIFIED
Proper shipping name	
Class	
Packing group	
ICAO label	
ID No	

Further information

15 - REGULATORY INFORMATION

Classification and Labelling according to EEC directives

HEALTH	PHYSIO-CHEMICAL	ENVIRONMENT
Not classified	Not classified	Not classified

R	None
(RECOMMENDED)	
S 22	Do not breathe the dust.
S 24	Avoid contact with skin.
S 37	Wear suitable gloves

Hazard determining component(s) for labelling : None above limit for classification

The product Contains : Hexamine (May produce an allergic reaction)

SPECIAL LABEL : None

UK Legislation (as Ammended) :
This product is classified under the Chemicals (Hazard information and Packaging) Regulations. (CHIP) (United Kingdom). The data should be considered when making any assessment under the Control of Substances to Health Regulations (COSHH), and any related guidance. The product may be subject to the control of Major Accident Hazards Regulations (COMAH) and amendments if specific threshold tonnages are exceeded (UK)

16 - OTHER INFORMATION

OTHER RISK PHRASES LISTED IN THIS MSDS

R 11	Highly flammable
R 42/43	May cause sensitisation by inhalation and skin contact

* SECTIONS REVISED SINCE PREVIOUS VERSION 2,3,11,12,

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