



POWERBOND PB120
SAFETY DATA SHEET

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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name : PowerBond
Product Code : PB 120
Use/Description of Product : Black Polymer Adhesive Sealant in 300ml Cartridges. Non Conductive High Modulus Adhesive Sealant for OEM Windscreen replacement. Also Specified for General Heavy duty Bonding of Painted and Prepared Plastics And Panels in Bodyshop and Automotive Mechanical use.
Company Name : Rotec Industries
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2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients :

Substance Name	EINECS No.	CAS No.	% Conc Range	Hazard Symbols	Risk Phrases
DYFENILMETHANE DIISOCYANATE			</=0.5	XN	20-36-37-38-42

3. HAZARD IDENTIFICATION

Classifications : Harmful
Risk Phrases : Extremely Flammable – Harmful by ingestion. Avoid contact with eyes and Skin – Inhalation may cause sensitisation.
Main Hazard Overview : DANGER MARKINGS: Product contains Isocyanates.

4. FIRST AID MEASURES (SYMPTOMS) part 1

Skin Contact : There may be irritation at the site of contact.
Eye Contact : There may be irritation and/or redness.
Ingestion : There may be irritation of the throat. There may be vomiting.
Inhalation : There may be irritation of the throat. There may be vomiting.

4. FIRST AID MEASURES (ACTIONS) part 2

General :
In all cases of doubt or when symptoms persist seek medical attention. Never give anything by mouth to an unconscious person.

Skin Contact :
Remove mechanically from skin. Wash skin thoroughly with soap and water.

Eye Contact :
Contact lenses should be removed. Irrigate copiously with clean, fresh water for at least 10 minutes holding the eyelids apart. Seek medical advise.

Ingestion :
If accidentally swallowed obtain immediate medical attention. Keep at rest. Do not induce vomiting. Show medical personnel a copy of this SDS.

Inhalation :
If unconscious, check for breathing and apply artificial respiration if necessary. If conscious Put into recovery position. Seek Medical advice.

5. FIRE-FIGHTING MEASURES

Extinguishing Media : Antifoam Powder, Nebulised Water, Carbon dioxide.(No Known Extinguishing methods to avoid)

Protection of Fire-fighters : Fire will produce Carbon monoxide, nitric Oxide, Isocyanate. Vapours and Traces of cyanidric acid . Wear Aqualung or Special Gas Mask. Wear Aqualung while extinguishing the flames. No unusual Dangers Flash point 60 Deg C.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions :
Do not inhale the vapours, exclude heat sources and ventilate the area well. Refer to section 7 and 8 of SDS for personal protection details.

Environmental Precautions :
Do not allow to enter drains or water Courses. If this happens contact Local Water Company or In the case of rivers, the Local Rivers Authority.

Clean-up Procedures :
Clean away leakage mechanically, cover leakage with damp, absorbed material, (e.g., wood sawings, reactive chemical binders based on calcium, hydrate, silicate, sand). After 1 hour collect in a waste container. Do NOT close. (Can develop carbon dioxide). Keep humid and leave for many days in the open air in a controlled area.

7. HANDLING AND STORAGE

Handling requirements :
Avoid contact with skin and eyes. Wear rubber or PV gloves and eye glasses where there is a risk of spillage. Container should be kept dry and hermetically closed.

Storage Conditions :
Warehouse requirements: Storage Temperature 5 deg C – 28 deg C. Electrical equipment must be protected against possible explosion in a suitable manner. The floor must be electrically conductive. Keeps containers well closed and do not empty under pressure. Keep containers well closed to avoid humidity. The product reacts with water. Forming an insoluble polymer and liberating carbon dioxide keep a copy of this SDS to hand. Store in a well ventilated and dry area. Protect from heat and direct sunlight and keep away from all heat and ignition sources. Store in accord with all known instructions for flammable materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients :

Substance Name	Occupational Exposure Limit		Notation
	8 hr LTEL		
	ppm	Mg/m3	
4-4' dyfenilmethane dilsocyanate	< 0.3%		EINECS not applicable

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If extraction methods are insufficient to maintain concentrations of particulates and/or solvent vapours below relevant OEL's, suitable respiratory protective equipment should be worn.

Respiratory Protection

Protection of the respiratory tract with a mask and combined A-2-P2 Filter.

Hand Protection

Full physical protection is best. Seek relevant advice from glove manufacturers. Barrier cream may be of help but should not be applied after exposure has occurred, and will not substitute for correct gloves.

Eye protection

Use chemical proof glasses to protect against liquid splashes.

Skin Protection

Wear protective working clothes, boots, overalls and gloves. Permeability tests indicate the following materials as efficient for protective clothing: Butyl rubber, neoprene, nitrile/butadiene rubber. Thin disposable gloves should not be used for long periods. Contaminated clothing should be washed before re-use.

Notes

Notations = Sk = risk of absorption through skin Sen – respiratory sensitizer Bmgv – Biological Monitoring may be appropriate (see Biological Monitoring Guidance Value in EH40 Table 3)

OES = Occupational Exposure Standard MEL = Maximum Exposure Limit

OEL's from EH40 (Revised annually) except where marked SUP which are assigned by the supplier of the substance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Paste
Colour	:	Black
Odour	:	Characteristic
Solubility in Water	:	Not soluble; reacts
Solubility in Acetone	:	Complete 20 deg C
Flash Point C	:	> 60 deg C
Specific Gravity	:	1,31 gr/cm3
Decomposition Temperature	:	> 150
Vapour Pressure	:	< 1.00 mm/Hg a 25 degC

10. STABILITY AND REACTIVITY

Chemical Stability :

Stable under the recommended storage and handling conditions (see section 7).

Conditions to avoid: Excessive heat (35degC), store far from alkaline or acid substances as well as oxidising substances. Reacts to Amines and Alcohol, by forming insoluble polyurea. Galvanised metals, copper and copper alloy. MDI base products and insoluble in water. The reaction form, i.e., a solid polyurea layer is not soluble in water and will release Carbon Dioxide.

11. TOXICOLOGICAL INFORMATION

This product is considered to be low toxic. It may cause eye and respiratory irritation. Single dose toxicity is low. The Polysocyanates contained (although they are not very volatile) could distribute small quantities of Isocyanates vapour. The Isocyanate TLV is 0.03 ppm. Inhalation of said vapours even in low concentrations could cause allergic reactions.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity Effects	:	Non toxic for fish, daphnia or bacteria.
Organic Toxicity Effects	:	Not bio-degradable
Persistence/Mobility	:	No data available
Bioaccumulation	:	Low
Further information	:	

The product should not be allowed to enter drains or watercourses ,
Where it reacts on contact with water to develop CO2 forming a solid reaction substance which is insoluble and high melting.

13. DISPOSAL INFORMATION

NB:

The users attention is drawn to the possible existence of regional or national regulation regarding disposal, Consult local Regulations. Do not dispose of in sewers or dump in underground water areas.

Disposal: 57110 Type of Waste: polyurethane varnish waste
Hardened Waste: polyurethane waste

14. TRANSPORT INFORMATION

Road/Rail	:	N/A
Sea	:	Packing Grp. Polyurethane paste sealant Pollutant.....No N.ONU No.....1170 Not dangerous for transport. Does not produce vapour or dust. Transport in a dry Environment..

15. REGULATORY INFORMATION

The product is classified and labelled for supply in accordance with the Chemicals (Hazard Information & Packaging) Regulations as follows:

Classifications	:	None
Risk Phrases	:	20 Harmful by inhalation 22 Harmful by ingestion 42 May cause sensitisation by inhalation 36-38 irritating to eyes, respiratory tract and skin.
Safety Phrases	:	2 Keep out of the reach of children 24/25 Avoid skin and eye contact 26 In case of contact with eyes, rinse immediately with plenty of water and consult a Doctor. 28 After contact with skin rinse immediately with plenty of soap and Water. 37/39 the use of eye- glasses is recommended during use. 45 In case of accident or illness request medical attention.

The information contained in this Safety data Sheet does not constitute the users own assessment of the workplace risks as required by other Health & Safety Legislations.
The provisions of the Health & Safety at work etc. Act and the Control of Substances Hazardous to Health Regulations apply to the use of this product in a suitable work environment.

16. ADDITIONAL INFORMATION

Follow standard EEC Health Regulations, with regular check ups.

The information contained in this Safety Data Sheet is provided in accordance with the requirements of the Chemicals (Hazard Information & Packaging for Supply) Regulations 2002. The product should not be used for purposes other than those shown in section .1 without first referring to the supplier and obtaining new written instructions. As the specified conditions of use of the product are outside of the suppliers control, the user makes themselves responsible for ensuring that the relevant requirements and legislation are complied with.

The information contained in this Safety Data Sheet is based on the present state of knowledge and known current national legislation. It provides guidance on health, safety and environmental aspects of the product and its typical values; it should not be construed as any guarantee of technical performance or suitability for particular applications.