

PU88 2-component Polyurethane Adhesive – PART B

MATERIAL SAFETY DATA SHEET

SECTION I

COMPANY UNDERTAKING IDENTIFICATION

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TRADE NAME:

PU88 2-component Polyurethane Adhesive – Part B

SECTION II - COMPOSITION/INFORMATION

Polyurethane component B > 50% Diphenylmethan – 4,4' diisocyanate

SECTION III – HAZARDS IDENTIFICATION

R20: Harmful by inhalation
R36/37/38: Irritation to eyes, respiratory system and skin
R42: May cause sensitization by inhalation

Those persons who suffering on allergic reaction with isocyanats should avoid contact with product.

SECTION IV – FIRST AID MEASURES

AFTER INHALATION:	Remove to fresh air, consult doctor if complaint persist.
AFTER SKIN CONTACT:	Rinse with running water and soap. Remove contaminated clothes.
AFTER EYE CONTACT:	Immediately flush eyes with copious amount of running water (for 10 minutes), put on a bandage with sterile gauze, see an Oculist.
AFTER INGESTION:	Drink plenty of water, see a Physician.

SECTION V – FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA:	Suitable for all regular extinguishing materials.
EXTINGUISHING MEDIA WHICH MUST NOT BE USED FOR SAFETY REASON:	None know.
SPECIAL EXPOSURE HAZARDS ARISING FROM PRODUCT ITSELF, FROM COMBUSTION PRODUCTS OR FROM RESULTING GASES:	Can be released in case of fire HCN.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTER:	Wear full protective suit. Wear self – contained breathing apparatus.

SECTION VI – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:	Ensure adequate ventilation. Wear protective equipment.
ENVIRONMENTAL PRECAUTION:	Do not allow to flow it into drainage system, surface or ground water.
METHODS OF CLEANING UP/OF REMOVING:	Remove with liquid – absorbing material (sand, sawdust). Dispose of contaminated material as waste according to item 13.

SECTION VII – HANDLING AND STORAGE

HANDLING:	Ensure that working room are adequate ventilated.
STORAGE :	Keep container tightly sealed, store in a cool and dry place. Do not store together with edibles or other consumable substances.
STORAGE CLASS :	VCI – storage class 10 (BRD)

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

INFORMATION ON THE SYSTEM DESIGN:	Ensure for good ventilation / suction.
COMPONENTS WITH SPECIFIC CONTROL PARAMETERS:	The product contains diphenylmethane – 4,4' diisocyanate (MDI), CAS – no. 101-68-8. The relevant German exposure-limit for working place (MAK_value) according to "TRGS 9000" for this substance is 0.005 ppm = mg/m ³ (Inhalation aerosol). (STEL-category I).
PERSONAL PROTECTION:	Wash hands before work breaks and after finishing. Avoid skin contact. Do not eat, smoke, drink while working. Immediately remove soiled or soaked clothing.
RESPIRATORY PROTECTION:	Suitable breathing mask when there is inadequate ventilation.
HAND PROTECTION:	Suitable protection gloves.
EYE PROTECTION:	Protection goggles.
SKIN PROTECTION:	Suitable protective clothes.

SECTION VIII – PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Dark Brown
pH:	Not applicable
FLASH POINT:	No flash point up to 100°C
AUTO-FLAMMABILITY:	Product is not self-igniting
EXPLOSIVE PROPERTY:	Not applicable
DENSITY:	(20 °C) 1.7 – 1.2 g/cm ³
POT LIFE A:B (5:1):	(20 °C) insoluble with water
VISCOSITY:	(20 °C) Approximate 10,000 Sct Haake-Viskosimeter VT181 (E500/degree IV)

SECTION X – STABILITY AND REACTIVITY

CONDITION TO AVOID:	No decomposition if used according to specifications.
MATERIALS TO AVOID:	Reacts with water, pressure built up in close vessel (CO ₂) Reacts with amines, alcohols acids and bases.
HAZARDOUS DECOMPOSITION PRODUCTS:	None know.

SECTION XI – TOXICOLOGICAL INFORMATION

No data from animal studies available.	
INHALATION:	Injures to health cannot be excluded after longer or reported exposure. Cross reaction with isocyanate compounds possible.
SKIN CONTACT:	The product is irritant to skin and mucous membranes. May cause sensitization by inhalation.

SECTION XII – ECOLOGICAL INFORMATION

PERSISTENCE AND DEGRADABILITY:	The product is poorly biodegradable. Keep from entering waste water, soil or surface water.
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SECTION XIII – DISPOSAL CONSIDERATIONS

WATER INCINERATION OR SPECIAL DISPOSAL WITH APPROVAL OF THE RESPONSIBLE LOCAL AUTHORITY:	Waste key number according to (LAGA) (Landerarbeitsgemeinschaft Abfall) Germany 57110 Only emptied packages with traces of dried product and without solvent vapour are to let for recycling.
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SECTION XIII – TRANSPORT INFORMATION

Transport over land ADR/RID. Not a hazardous material according to RID/ADR and GGVS/GGVE. Transport over inland waterways AND/ADNR: Class: Number/Letter: Category: Transport over sea IMDG: Not a hazardous substance as defined by IMDG/GGV. Transport by air ICAO / IATA:

Not a hazardous substance as defined by ICAO-TI /IATA – DGR.

Goods not subject to class 6.1 and carriage agreed under the terms of ADR mariginal 2010 (signatory states only).

SECTION XV – REGULATORY INFORMATION

LABELING:	Labeling according to Gefstoffv.
SYMBOLS OF DANGER:	Xn Harmful.
INGREDIENTS:	Diphenylmethan-4,4' diisocyanate (MDI).
R-PHRASES:	R20 Harmful by inhalation R36/37/38 Irritating to eyes, respiratory system and skin R42 May cause sensitization by inhalation
S-PHRASES:	S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice S28 After contact with skin, wash immediately with plenty of water and soap S38 In case of insufficient ventilation, wear suitable respiratory equipment S45 In case of accident or if you feel unwell, seek medical advice immediately (show the table where possible)
ADDITION LABELING:	Contain isocyanate. Follow the manufacturer's instruction.
NATION PRESCRIPTION:	Not a combustible liquid according to the regulations governing combustible liquid (VbF) in German.

WGK = 1. Classification according to Annex 2 of the "Verwaltungs-Vorschrift wassergefährdende stoffe" vom 18. April 1996. Note the German BG-Chemie data sheet M 044": "Polyurethane-Herstellung / Isocyanate and the accident prevention regulations VBG 81:" Verarbeitung von Klebstoffen" Giscode: RUI.

SECTION XVI – OTHER INFORMATION

This data is based on our current knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties. The product is provided for the professional user.

