

Material Safety Data Sheet

Bondloc PU 21

Revised 03.08.10



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

PRODUCT NAME: Bondloc PU 21
MANUFACTURER: Bondloc UK Limited,
Bewdley,
Worcestershire
DY12 2TZ
Emergency Info: +44 (0)1299 269 269

2: COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous components	% by weight	CAS number	Hazard symbol	EINECS
Xylene (Mixed Isomers, pure)		1330-20-7	Xn - R10-20/21-38	215-525-7
Distillates (petroleum) hydrotreated light		64742-47-8	R66	265-149-8
Diphenylmethane (4,4 - disocyanate)		101-68-8	Xn - R20-36/37/37 - 42/43	202-966-0

3: HAZARDS IDENTIFICATION

Hazard Description: Xn Harmful
Information pertaining to particular dangers for man and environment R 42 may cause sensitisation by inhalation.
Contains isocyanates. See information supplied by the manufacturer.

Classification System: The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

4: FIRST-AID MEASURES

First Aid for Inhalation:

Irritating to respiratory system. Inhalation of vapours is irritating to the respiratory system, may cause throat pain and a cough. Move to fresh air. Consult a doctor after significant exposure.

First Aid for Skin Contact:

Irritating to skin. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a doctor.

First Aid for Eye Contact:

Irritating to eyes. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a doctor.

First Aid for Ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Consult a doctor if necessary. Do not induce vomiting.

5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Medium	Carbon dioxide, Foam, Fire extinguishing powder
In the event of fire the following can be released	Carbon monoxide (CO), Nitrogen Oxides (Nox)
Possible in traces	Hydrogen cyanide (HCN) Isocyanates
Protective fire fighting equipment	Use breathing apparatus
Unsuitable extinguishing agents	Water with full jet

6: ACCIDENTAL RELEASE MEASURES

Personal precautions	Ensure adequate ventilation. Use personal protective equipment.
Environmental precautions	Do not let product enter drains. Prevent further leakage or spillage.
Methods for cleaning up	Pick up mechanically. When picked up treat material as prescribed under heading 'disposal'. Residues with small amount of alcohol-based solvent

7: HANDLING AND STORAGE

Handling Keep away from sources of ignition.
No smoking

Storage Keep containers tightly close in a dry, cool and well-ventilated place. Keep away from food, beverages.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional Information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

101-68-8 diphenylmethane-4, 4'-diisocyanate

MEL: Short-term value: 0.07 mg/m³

Long-term value: 0.02 mg/m³

Sen; as -NCO

1330-20-7 xylene, mixed isomers, pure

OES: Short-term value: 662 mg/m³, 150 ppm

Long-term value: 441 mg/m³, 100 ppm

General protective and hygienic measures:

Avoid close or long term contact with the skin. Wash hands before breaks and at end of work. Do not eat, drink, smoke while working. Do not inhale gases/fumes/aerosols. Pregnant women should avoid inhalation or skin contact.

Breathing Equipment:

Use suitable respiratory protective device in case on insufficient ventilation: Short term filter device: Filter AB

Protection of hands:

PVA, natural, butyl, nitrile or polychloroprene rubber gloves of superior quality. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pasty
Colour	Various
Odour	Light
Melting point / range	N/A
Flash point	40-55°C
Boiling point	137°C
Self ignition temp	>200°C
Explosion limit - lower	0.6 vol%
Explosion limit - upper	8 vol%
Density	1.17
Solubility	Insoluble

10: STABILITY AND REACTIVITY**Therman decomposition / conditions to be avoided**

No decomposition if used according to specifications.

Materials to avoid

Reacts with alcohols, amines, aqueous, acids and alkalis
Reacts with water forming carbon dioxide. Danger of receptacles bursting because of vapour overpressure.

Dangerous products of decomposition No dangerous products known.

11: TOXICOLOGICAL INFORMATION**Acute toxicity:**

LD/LC50 values that are relevant for classification:
1330-20-7 xylene, mixed isomers, pure
Oral: LD50: 8700 mg/kg (rat)
Dermal: LD50: 2000 mg/kg (rbt)
Inhalative: LC50/4 h: 6350 mg/1 (rat)

Primary irritant effect:

On the skin: No irritant effect
On the eye: No irritating effect.
Sensitisation: Sensitisation possible through inhalation.

12: ECOLOGICAL INFORMATION**General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.

13: DISPOSAL CONSIDERATIONS**Product Recommendation:**

Must be disposed of in an incinerator for hazardous waste according to official regulations.

Un-cleaned Packagings:

Disposal must be made according to official regulations..

14: TRANSPORT INFORMATION**U.S. Department of Transportation Ground (49 CFR):**

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

International Air Transportation (ICAO/IATA):

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

WaterTransportation (IMO/IMDG):

Proper shipping name: Unrestricted

Hazard class or division: None

Identification number: None

Packing group: None

Marine pollutant: None

UN No: None

IMDG: -

Packing Group:-

IATA/ICAO: -

Packing Group:-

ADR/RID: -

Item: -

Flash Point:-

Transport Name: None-not hazardous for transport.

15: REGULATORY INFORMATION**Markings according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives.

Code letter and hazard designation of product:

Xn harmful

Hazard-determining components of labelling:

Diphenylmethane-4, 4'-diisocyanate

Risk phrases:

42 May cause sensitisation by inhalation.

Safety phrases:

45 in case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Special labelling of certain preparations:

Contains isocyanates. See information supplied by the manufacturer.

Advised Phrases:

23 Do not breath vapour

26 In case of contact with eyes, rinse immediately with plenty of soap water and seek medical advice.

28 After contact with skin, wash immediately with plenty of soap and water.

National Regulations:

Water hazard class: Water hazard class 2 (self-assessment): hazardous for water.

16: OTHER INFORMATION

The normal handling and safety precautions for the use of chemical must be observed.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally contractual relationship.

This data sheet is particularly in accordance with european directives 1999/45/CE and 2001/59/CE ; it is written according to the european directives 2001/58/CE.

Relevant R-Phrases

10	Flammable.
20	Harmful by inhalation.
20/21	Harmful by inhalation and in contact with skin.
36/37/38	Irritating to eyes, respiratory system and skin.
38	Irritating to skin

The information contained in this Safety Data Sheet does not constitute the user's own assessment of the workplace risks as required by other health& safety legislation.

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 at work.

PRECAUTIONS: This product and the auxiliary materials normally combined with it are capable of producing adverse health effects ranging from minor skin irritation to serious systemic effects. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheets (MSDS) for this and all other products being used are understood by all persons who will work with the product.

Warranty: All products purchased from or supplied by Bondloc are subject to terms and conditions set out in the contract. Bondloc warrants only that its product will meet those specifications designated as such herein or in other publications. All other information supplied by Bondloc is consider accurate but are furnished upon the express condition the customer shall make its own assessment to determine the product's suitability for a particular purpose. Bondloc makes no other warranty, either express or implied, including those regarding such other information, the data upon which the same is based, or the results to be obtained from the use thereof; that any product shall be merchantable or fit for any particular purpose; or that the use of such other information or product will nor infringe any patent.