



SAFETY DATA SHEET

CILCURE B

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name CILCURE B

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier Chemical Innovations Ltd
217 Walton Summit Road
Bamber Bridge
Preston, Lancashire
PR5 8AQ United Kingdom
T +44 (0)1772 322888
F +44 (0)1772 315853
Email: sds@cilbond.com

1.4. Emergency telephone number

07778 029192

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Not classified.
Human health	Acute Tox. 4 - H332; Skin Irrit. 2 - H315; Eye Irrit. 2 - H319; Resp. Sens. 1 - H334; Skin Sens. 1 - H317; Carc. 2 - H351; STOT SE 3 - H335; STOT RE 2 - H373
Environment	Not classified.

Classification (1999/45/EEC)

Xn; R20, R48/20. Carc. Cat. 3; R40. R42/43. Xi; R36/37/38.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Contains

DIPHENYLMETHANE-2,4'-DIISOCYANATE
DIPHENYLMETHANE-4,4'-DIISOCYANATE
METHYLENEDIPHENYLDIISOCYANATE HOMOPOLYMER

Label In Accordance With (EC) No. 1272/2008



Signal Word

Danger

Hazard Statements

H315

Causes skin irritation.

CILCURE B

H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements	
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P281	Use personal protective equipment as required.
P285	In case of inadequate ventilation wear respiratory protection.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313	IF exposed or concerned: Get medical advice/attention.
P313	Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P342+311	If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
P501	Dispose of contents/container to ...
Supplementary Precautionary Statements	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P260	Do not breathe vapour/spray.
P261	Avoid breathing vapour/spray.
P264	Wash contaminated skin thoroughly after handling.
P321	Specific treatment (see medical advice on this label).
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P304+340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P304+341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P332+313	If skin irritation occurs: Get medical advice/attention.
P333+313	If skin irritation or rash occurs: Get medical advice/attention.
P337	If eye irritation persists:
P362	Take off contaminated clothing and wash before reuse.
P363	Wash contaminated clothing before reuse.
P403+233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

DIPHENYLMETHANE-2,4'-DIISOCYANATE

5-10%

CAS-No.: 5873-54-1

EC No.:

CILCURE B

Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.
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DIPHENYLMETHANE-4,4'-DIISOCYANATE	70-80%
CAS-No.: 101-68-8	EC No.: 202-966-0

Classification (EC 1272/2008) Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	Classification (67/548/EEC) Xn;R20,R48/20. Carc. Cat. 3;R40. Xi;R36/37/38. R42/43.
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METHYLENEDIPHENYLDIISOCYANATE HOMOPOLYMER	20-30%
CAS-No.: 39310-05-9	EC No.:
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) R42.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information

Move the exposed person to fresh air at once.

Get medical attention if any discomfort continues.

NOTE! Effects may be delayed. Keep affected person under observation.

Inhalation

Move the exposed person to fresh air at once.

For breathing difficulties oxygen may be necessary.

If breathing stops, provide artificial respiration.

Keep the affected person warm and at rest. Get prompt medical attention.

Ingestion

DO NOT INDUCE VOMITING!

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS!

Remove victim immediately from source of exposure.

Immediately rinse mouth and provide fresh air.

Get medical attention immediately!

NOTE! Keep affected person away from heat, sparks and flames!

Skin contact

Remove affected person from source of contamination.

Wash the skin immediately with soap and water.

Get medical attention if irritation persists after washing.

CILCURE B

Eye contact

Remove victim immediately from source of exposure.
Make sure to remove any contact lenses from the eyes before rinsing.
Promptly wash eyes with plenty of water while lifting the eye lids.
Continue to rinse for at least 15 minutes.
Contact physician if irritation persists.

4.2. Most important symptoms and effects, both acute and delayed

General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Fire can be extinguished using:
Dry chemicals, sand, dolomite etc.
Alcohol resistant foam.
Carbon dioxide or dry powder.
DO NOT use water if avoidable.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Fire causes formation of toxic gases.

Specific hazards

Fire creates:
Toxic gases/vapours/fumes of:
Carbon monoxide (CO).
Carbon dioxide (CO₂).
Cyanides.
Nitrous gases (NO_x).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Move container from fire area if it can be done without risk.
Containers close to fire should be removed immediately or cooled with water.
Cool containers exposed to flames with water until well after the fire is out.
Keep run-off water out of sewers and water sources. Dike for water control.
Keep up-wind to avoid fumes.
If possible, fight fire from protected position.
Do not get water inside container.

Protective equipment for fire-fighters

Wear full protective clothing.
Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area.
Avoid inhalation of vapours and contact with skin and eyes.
In case of spills, beware of slippery floors and surfaces.

6.2. Environmental precautions

Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

CILCURE B

Stop leak if possible without risk.

Provide ventilation and confine spill. Do not allow runoff to sewer.

Absorb in vermiculite, dry sand or earth and place into containers.

Do not close container tightly. Risk of excess pressure build-up.

If leakage cannot be stopped, evacuate area.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact.

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

Eye wash facilities and emergency shower must be available when handling this product.

Persons with impaired lung functions should not handle this preparation.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place.

Stir thoroughly before and during use. Refer to SDS

Storage Class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
DIPHENYLMETHANE-2,4'-DIISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	as NCO
DIPHENYLMETHANE-4,4'-DIISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	as NCO
METHYLENEDIPHENYLDIISOCYANATE HOMOPOLYMER	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Respiratory equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

It is recommended to use respiratory equipment with combination filter, type A2/P2.

Hand protection

Use protective gloves.

Nitrile gloves are recommended.

Eye protection

Wear approved safety goggles.

Other Protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

CILCURE B

Hygiene measures

DO NOT SMOKE IN WORK AREA!

Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Promptly remove any clothing that becomes contaminated.

When using do not eat, drink or smoke.

Skin protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Light (or pale). Yellow.
Odour	Characteristic. Musty (mouldy).
Initial boiling point and boiling range (°C)	>300@ 760 mm Hg
Melting point (°C)	<15
Relative density	1.21@ 25
Vapour density (air=1)	8.5
Vapour pressure	0.00001 mm Hg @25
Flash point (°C)	190 Method CC (Closed cup).

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

Avoid contact with water.

Reacts with alkalis and amines generating excessive heat.

Avoid contact with:

Oxidising materials.

10.5. Incompatible materials

Materials To Avoid

Bases, alkalis (inorganic).

Alcohols, glycols.

Amines.

Water, steam, water mixtures.

Strong acids.

10.6. Hazardous decomposition products

Fire creates:

Vapours/gases/fumes of:

Carbon monoxide (CO).

Carbon dioxide (CO₂).

Nitrous gases (NO_x).

Cyanides.

CILCURE B

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapour from this chemical can be hazardous when inhaled. May cause sensitisation by inhalation.

Ingestion

May cause stomach pain or vomiting.

Skin contact

May cause skin irritation/eczema. Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

Irritation of eyes and mucous membranes.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

Only experts should be permitted to carry out disposal of this material.

Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

CILCURE B

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Uk Regulatory References

Petroleum (Consolidation) Act, as amended 1984 SI 1244.

Highly Flammable Liquid Regulations 1972.

Environmental Listing

Rivers (Prevention of Pollution) Act 1961.

Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Control of Substances Hazardous to Health.

Approved Code Of Practice

Classification and Labelling of Substances and Preparations Dangerous for Supply.

Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

Introduction to Local Exhaust Ventilation HS(G)37.

CHIP for everyone HSG(108).

EU Legislation

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

Dangerous Preparations Directive 1999/45/EC.

System of specific information relating to Dangerous Preparations. 2001/58/EC.

Water hazard classification

WGK 1

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 31/01/2013

Revision 1

SDS No. 10637

Risk Phrases In Full

R20	Harmful by inhalation.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42/43	May cause sensitisation by inhalation and skin contact.
R42	May cause sensitisation by inhalation.

CILCURE B

Hazard Statements In Full

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs <<Organs>> through prolonged or repeated exposure.

stir

STIR BEFORE USE.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.