

**SAFETY DATA SHEET
FLEXOCOL W ADHESIVE**

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

PRODUCT NAME	FLEXOCOL W ADHESIVE		
Application	Adhesive		
SUPPLIER	FLAG-SOPREMA UK Ltd Unit 640, The Hub Avenue West Skyline 120 Great Notley Essex. CM77 7AA +44 (0) 845 1948727 +44 (0) 845 1948728 enquiries@flag-soprema.co.uk	MANUFACTURER	Caswell and Company Ltd 6 Princewood Road Earlstrees Industrial Estate Corby, Northants NN17 4AP +44 (0) 1536 464800 +44 (0) 1536 464801 Technical info@caswell-adhesives.co.uk

2 HAZARDS IDENTIFICATION

Harmful by inhalation. Irritating to eyes, respiratory system and skin. May cause sensitisation by inhalation and skin contact. Limited evidence of a carcinogenic effect. Harmful: danger of serious damage to health by prolonged exposure through inhalation.
 CLASSIFICATION (1999/45) Xn;R20, R48/20. Carc. Cat. 3;R40. R42/43. Xi;R36/37/38.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	202-966-0	101-68-8	30-60%	Carc. Cat. 3;R40 Xn;R20,R48/20 Xi;R36/37/38 R42/43
TOSYL ISOCYANATE	223-810-8	4083-64-1	< 1%	R14 R42 Xi;R36/37/38

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

FIRST AID, GENERAL

Symptoms of poisoning may occur after several hours; therefore medical observation is necessary for at least 48 hrs after the accident

INHALATION

Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Get medical attention.

INGESTION

DO NOT induce vomiting. Get medical attention immediately.

SKIN CONTACT

Wash skin thoroughly with soap and water for several minutes.

EYE CONTACT

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if discomfort continues.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Extinguish with foam, carbon dioxide, dry powder or water fog.

SPECIAL FIRE FIGHTING PROCEDURES

Avoid breathing fire vapours. Use supplied air respirator if product is involved in a fire.

UNUSUAL FIRE & EXPLOSION HAZARDS

Fire causes formation of toxic gases.

SPECIFIC HAZARDS

When heated and in case of fire, toxic vapours/gases may be formed.

PROTECTIVE MEASURES IN FIRE

Use air-supplied respirator during fire fighting.

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective gloves and, in case of splashes, goggles/face shield too. Provide adequate ventilation.

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ENVIRONMENTAL PRECAUTIONS

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

SPILL CLEANUP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. For waste disposal, see section 13.

7 HANDLING AND STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Eliminate all sources of ignition. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Avoid forming spray/aerosol mists.

STORAGE PRECAUTIONS

Keep containers tightly closed. Keep separate from food, feedstuffs, fertilisers and other sensitive material.

STORAGE CLASS

Miscellaneous hazardous material storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
DIPHENYLMETHANE-4,4'-DI-ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	
TOSYL ISOCYANATE	WEL		0.02 mg/m3(Sen)		0.07 mg/m3(Sen)	

WEL = Workplace Exposure Limit.

INGREDIENT COMMENTS

WEL = Workplace Exposure Limits

PROTECTIVE EQUIPMENT



PROCESS CONDITIONS

Use engineering controls to reduce air contamination to permissible exposure level.

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

RESPIRATORY EQUIPMENT

If ventilation is insufficient, suitable respiratory protection must be provided.

HYGIENE MEASURES

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

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Coloured liquid		
COLOUR	Blue		
ODOUR	Almost odourless		
MOL. WEIGHT	1.125	VISCOSITY	3000 4000 cps

10 STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

CONDITIONS TO AVOID

The product will harden into a hard mass in contact with water and moisture.

MATERIALS TO AVOID

Water, steam, water mixtures.

HAZARDOUS DECOMPOSITION PRODUCTS

If heated, vapours/gases hazardous to health (e.g. CO, NOx, isocyanates) may be formed.

11 TOXICOLOGICAL INFORMATION

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INHALATION

Harmful by inhalation. May cause sensitisation by inhalation.

INGESTION

Irritating. May cause nausea, stomach pain and vomiting.

SKIN CONTACT

Irritating to skin. May cause sensitisation by skin contact.

EYE CONTACT

Irritating and may cause redness and pain.

12 ECOLOGICAL INFORMATION

MOBILITY

The product hardens to a solid immobile substance.

BIOACCUMULATION

No data available on bioaccumulation.

DEGRADABILITY

The product is not readily biodegradable.

WATER HAZARD CLASSIFICATION

WGK 1

13 DISPOSAL CONSIDERATIONS

GENERAL INFORMATION

Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

DISPOSAL METHODS

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

14 TRANSPORT INFORMATION

GENERAL

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

No transport warning sign required.

15 REGULATORY INFORMATION

SYMBOLS



Harmful

CONTAINS

DIPHENYLMETHANE-4,4'-DI-ISOCYANATE

RISK PHRASES

- R20 Harmful by 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.
- R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.

SAFETY PHRASES

- S23 Do not breathe vapour/spray.
- S25 Avoid contact with eyes.
- S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- S36/37 Wear suitable protective clothing and gloves.
- 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 label where possible).
- S60 This material and its container must be disposed of as hazardous waste.
- P4 Contains isocyanates. See information supplied by the manufacturer.

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16 OTHER INFORMATION

REVISION DATE 24.01.11

REV. NO./REPL. SDS GENERATED 4

SDS NO. 10678

SAFETY DATA SHEET STATUS

Approved.

RISK PHRASES IN FULL

R14	Reacts violently with water.
R20	Harmful by inhalation.
R36/37/38	Irritating to eyes, respiratory system and skin.
R40	Limited evidence of a carcinogenic effect.
R42	May cause sensitisation by inhalation.
R42/43	May cause sensitisation by inhalation and skin contact.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.

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 a 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.