



CaberfixD4®

Product Data Sheet

Health and Safety Data - Version 1.2

Product Code: CaberfixD4®

1: Hazards identification

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification under CHIP:

Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20

Classification under CLP:

Carc. 2: H351; Eye Irrit. 2: H319; Resp. Sens. 1: H334; Skin Irrit. 2: H315; Skin Sens. 1: H317; STOT RE 2: H373; STOT SE 2: H371; Acute Tox. 4: H332; STOT SE 3: H335; -: EUH204

Most important adverse effects:

Harmful by inhalation. Irritating to eyes, respiratory system and skin. Limited evidence of a carcinogenic effect. May cause sensitisation by inhalation and skin contact. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Label elements under CLP:

Hazard statements:

- H315: Causes skin irritation.
- H332: Harmful if inhaled.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- 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 .
- EUH204: Contains isocyanates. May produce an allergic reaction.

Signal words:

Danger

Hazard pictograms:

GHS07: Exclamation mark

GHS08: Health hazard



Precautionary statements:

- P260: Do not breathe dust/fumes/ gas/mist/vapours/spray.
- P285: In case of inadequate ventilation wear respiratory protection.
- P281: Use personal protective equipment as required.
- P280: Wear protective gloves/ protective clothing/eye protection/face protection.
- P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P313: Get medical advice.
- P501: Dispose of contents/ container to national regulations

Label elements under CHIP:

Hazard symbols:

Harmful



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.
- S36/37: Wear suitable protective clothing and gloves.
- S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- S63: In case of accident by inhalation, remove casualty to fresh air and keep at rest

Precautionary phrases:

Contains isocyanates. See information supplied by the manufacturer

Other hazards:

PBT: This substance is not identified as a PBT substance.

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2. Composition/information on ingredients

Mixtures**Hazardous ingredients:**

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

EINECS	CAS	CHIP Classification	CLP Classification	Percent
-	9016-87-9	Xn: R20; Xi: R36/37/38; Xn: R40; Sens.: R42/43; Xn: R48/20	Carc. 2: H351; Acute Tox. 4: H332; Eye Irrit. 2: H319; STOT SE 3: H335; Skin Irrit. 2: H315; Resp. Sens. 1: H334; Skin Sens. 1: H317; STOT SE 2: H371; STOT RE 2: H373	30-50%

3 First aid measures

DESCRIPTION OF FIRST AID MEASURES

Skin contact: Remove all contaminated clothes and footwear immediately unless stuck to skin. Remove from skin with paper or towel. Wash effected area thoroughly with soap and water. Seek medical advice if symptoms persist. Seek medical help if symptoms persist

Eye contact: Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

Ingestion: Do not induce vomiting. If conscious, give half a litre of water to drink immediately. Transfer to hospital as soon as possible.

Inhalation: Remove casualty from exposure ensuring one's own safety whilst doing so. Obtain medical help if there is difficulty breathing.

Most important symptoms and effects, both acute and delayed

Skin contact: There may be irritation and redness at the site of contact. Onset of symptoms may be delayed

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Onset of symptoms may be delayed

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

Immediate / special treatment: Eye bathing equipment should be available on the premises.

4 Fire-fighting measures

EXTINGUISHING MEDIA

Extinguishing media: Carbon dioxide. Alcohol or polymer foam. Dry chemical powder.

Special hazards arising from the substance or mixture

Exposure hazards: In combustion emits toxic fumes.

Advice for fire-fighters:

Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

5 Accidental release measures

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Mark out the contaminated area with signs and prevent access to unauthorised personnel. Turn leaking containers leak-side up to prevent the escape of liquid. Refer to section 8 of SDS for personal protection details.

Environmental precautions:

Do not discharge into drains or rivers. Contain the spillage using bunding.

Methods and material for containment and cleaning up

Clean-up procedures: Absorb into dry earth or sand. Neutralise with dilute hydrochloric acid. Neutralise with water containing 1% wetting agent To avoid build up of pressure due to the evolution of carbon dioxide, do not seal containers until fully reacted.

Reference to other sections:

Refer to section 7 of SDS

6 Handling and storage

PRECAUTIONS FOR SAFE HANDLING

Handling requirements: Ensure there is sufficient ventilation of the area. Avoid direct contact with the substance.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store in cool, well ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

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7 Exposure controls

Control parameters

Workplace exposure limits:			Respirable dust		
State	8 hour TWA:	15 min. STEL:	8 hour TWA:	15 min. STEL:	
UK	0.02mg/m ³	0.07mg/m ³	-	-	

Hazardous ingredients

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Workplace exposure limits:			Respirable dust		
State	8 hour TWA:	15 min. STEL:	8 hour TWA:	15 min. STEL:	
UK	0.02mg/m ³	0.07mg/m ³	-	-	

ENGINEERING MEASURES:

Ensure there is exhaust ventilation of the area.

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. If exposure levels are likely to be exceeded, use a full face mask fitted with an organic AXP3 filter for short term low level exposures. For long term or high level exposures, compressed airline breathing apparatus should be used.

Hand protection: Avoid skin contact. For repeated exposure use Viton or 4H chemical gloves. the user must COSHH risk assess to determine the correct glove.

Eye protection: Safety goggles.

Skin protection: Wear protective work clothing sufficient to avoid skin contact. Wash hands regularly, before breaks and at the end of the working day.

8 Physical and chemical properties

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

State: Liquid

Colour: Dark brown

Odour: Characteristic odour

Evaporation rate: Slow

Oxidising: Non-oxidising (by EC criteria)

Solubility in water: Reacts with water.

Viscosity: Viscous

Flash point°C: >200

Autoflammability°C: >400

Vapour pressure: <0.00001hPa

Relative density: 1.12

9 Stability and reactivity

Reactivity: Stable under recommended transport or storage conditions.

Chemical stability: Stable under normal conditions.

Hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions. Decomposition may

Toxicity values:

Route	Species	Test	Value	Units
DERMAL	RBT	LD50	>9400	mg/kg
ORAL	RAT	LD50	>10000	mg/kg

Hazardous ingredients:

DIPHENYLMETHANE DIISOCYANATE (ISOMERS AND HOMOLOGUES)

Route	Species	Test	Value	Units
ORL	RAT	LD50	10,000	mg/kg
SKN	RBT	LD50	5.000	mg/kg

Relevant effects for mixture:

Effect	Route	Basis:
Acute toxicity (harmful)	INH	Hazardous: calculated
IrritationOPT INH DRM		Hazardous: calculated
SensitisationINH DRM		Hazardous: calculated
Repeated dose toxicity	INH	Hazardous: calculated

occur on exposure to conditions or materials listed below.

Conditions to avoid: Heat. Moist air.

Incompatible materials

Materials to avoid: Water. Strong acids. Strong bases.

Haz. decomp. products: In combustion emits toxic fumes.

10 Toxicological information

INFORMATION ON TOXICOLOGICAL EFFECTS

Symptoms / routes of exposure

Skin contact: There may be irritation and redness at the site of contact. Onset of symptoms may be delayed

Eye contact: There may be irritation and redness.

Ingestion: Nausea and stomach pain may occur. There may be vomiting.

Inhalation: Exposure may cause coughing or wheezing. There may be congestion of the lungs causing severe shortness of breath. Onset of symptoms may be delayed

Delayed / immediate effects: Immediate effects can be expected after short-term exposure.

11 Ecological information

TOXICITY

Ecotoxicity values:

Species	Test	Value	Units
Aquatic plants	72H EC50	1640	mg/l
Daphnia magna	24H EC50	>1000	mg/l
Sludge	3H EC50	>100	mg/l
ZEBRAFISH (<i>Brachydanio rerio</i>)	96H LC50	>1000	mg/l

Persistence and degradability:

Biodegradable in part only.

Bioaccumulative potential: No data available.

Mobility in soil: Reacts with water to form an insoluble polyurea. Do not discharge in to natural waters without pre-treatment.

PBT identification: This substance is not identified as a PBT substance

12 Disposal considerations

DISPOSAL OPERATIONS

Wet waste: Arrange for disposal by a licenced waste disposal company.

Disposal of packaging: Arrange for disposal by a licenced waste disposal company.

NB: The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

13 Transport information

Transport class: This product is not classified for transport.

14 Regulatory information

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATION SPECIFIC FOR THE SUBSTANCE OR MIXTURE

Specific regulations: This product is classified as a mixture. CLP classification for information only. Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation. Unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

15. Other information

This safety data sheet is prepared in accordance with Commission Regulation (EU) No. 453/2010.

* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and 3:

EUH204: Contains isocyanates.

May produce an allergic reaction.

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 <state route of exposure if it is

conclusively proven that no other routes of exposure cause the hazard>.

H373: May cause damage to organs <or state all organs affected, if known> through prolonged or repeated exposure <state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard>.

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.

16. Contact Information

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17. Liability

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

Issue date: 15 December 2014

This technical data sheet supersedes all previous information issued regarding the above product.