

According to EC-Regulation 2015/830

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Pourable Sealer S-10 Part B

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

Adhesive

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

Firestone Building Products EMEA

Ikaroslaan 75

1930 Zaventem

Belgium

Tel. : +32 2 711 44 50

Contact person

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E-mail

firestonemsds@bfdp.com

SDS date

2019-10-01

SDS Version

1.0

1.4. Emergency telephone number

In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department or the NHS enquiry service - dial 111.
or contact BIG Emergency number +32 (0)14 58 45 45

See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin Irrit. 2; H315

Skin Sens. 1; H317

Eye Irrit. 2; H319

Acute Tox. 4; H332

Resp. Sens. 1; H334

STOT SE 3; H335

Carc. 2; H351

STOT RE 2; H373

See full text of H-phrases in section 2.2.

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2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

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

Precautionary statements

General -
Prevention Do not breathe mist/vapours/fume/spray. (P260).
 Wear protective gloves/protective clothing/eye protection/face protection. (P280).
 [In case of inadequate ventilation] wear respiratory protection. (P284).
Response IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 (P304+P340).
 IF exposed or concerned: Get medical advice/attention. (P308+P313).
 If experiencing respiratory symptoms: Call a POISON CENTER/doctor (P342+P311).
Storage -
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

4,4'-methylenediphenyl diisocyanate; Polymethylene polyphenyl isocyanate; 4,4'-methylenediphenyl diisocyanate diphenylmethane-4,4'-diisocyanate

Additional labelling

Contains isocyanates. May produce an allergic reaction. (EUH204)

Unique formula identifier (UFI)

-

2.3. Other hazards

Not applicable

Additional warnings

Not applicable

VOC (volatile organic compound)

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Polymethylene polyphenyl isocyanate
IDENTIFICATION NOS.:	CAS-no: 9016-87-9 EC-no: 618-498-9
CONTENT:	25-50%
CLP CLASSIFICATION:	Skin Irrit. 2, Skin Sens. 1, Eye Irrit. 2, Acute Tox. 4, Resp. Sens. 1, STOT SE 3, Carc. 2, STOT RE 2
	H315, H317, H319, H332, H334, H335, H351, H373
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NAME:	4,4'-methylenediphenyl diisocyanate
IDENTIFICATION NOS.:	CAS-no: 101-68-8 EC-no: 202-966-0 REACH-no: 01-2119457014-47-xxxx Index-no: 615-005-00-9
CONTENT:	25-50%
CLP CLASSIFICATION:	Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2 H315, H317, H319, H332, H334, H335, H351, H373 I
NOTE:	
NAME:	di-isodecyl phthalate
IDENTIFICATION NOS.:	CAS-no: 26761-40-0 EC-no: 247-977-1
CONTENT:	5-20%
CLP CLASSIFICATION:	NA
NAME:	4,4'-methylenediphenyl diisocyanate diphenylmethane-4,4'-diisocyanate
IDENTIFICATION NOS.:	CAS-no: 5873-54-1 EC-no: 227-534-9 Index-no: 615-005-00-9
CONTENT:	2,5-10%
CLP CLASSIFICATION:	Acute Tox. 4, STOT RE 2, STOT SE 3, Skin Irrit. 2, Eye Irrit. 2, Resp. Sens. 1, Skin Sens. 1, Carc. 2 H315, H317, H319, H332, H334, H335, H351, H373
NAME:	Carbon black
IDENTIFICATION NOS.:	CAS-no: 1333-86-4 EC-no: 215-609-9 REACH-no: 01-2119384822-32-xxxx
CONTENT:	<= 2,5%
CLP CLASSIFICATION:	

(*) See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.
P = Prepolymer isocyanate I = Isocyanate monomer

Other information

ATEmix(inhale, vapour) = > 10 - 12,336
Eye Cat. 2 Sum = Sum(Ci/S(G)CLi) = 13,2 - 19,8
Skin Cat. 2 Sum = Sum(Ci/S(G)CLi) = 13,2 - 19,8

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department or call NHS 111 – take the label or this safety data sheet with you. NHS professionals can contact The National Poisons Information Service (dial 0344 892 0111, 24 h service).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. Prevent shock by keeping the injured person warm and calm. If breathing ceases, give mouth-to-mouth resuscitation. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with soap and water. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under the upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Not applicable

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

Sensitisation: This product contains substances, which may produce an allergic reaction through inhalation. The allergic reaction is typically taking place within an hour subsequent to exposure. The reaction results in an inflammatory reaction to the lungs.

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Nitrogen oxides. Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment.

Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid inhalation of vapours from spilled material. Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

6.3. Methods and material for containment and cleaning up

Use neutralization solutions:

1. A mixture of 90% water, 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent.
2. A mixture of 80% water, 20% non-ionic surfactant. Apply solution. Wait 15 minutes.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Collect in open-head container. Re-apply until surface is decontaminated. Apply drum lid but DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to escape. Secure drum lid for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

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7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

Keep container tightly sealed. Protect from humidity and water.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

Carbon black

Long-term exposure limit (8-hour TWA reference period): - ppm | 3,5 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 7 mg/m³

di-isodecyl phthalate

Long-term exposure limit (8-hour TWA reference period): - ppm | 5 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

4,4'-methylenediphenyl diisocyanate

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,02 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 0,07 mg/m³

Comments: sen (Sen = Capable of causing respiratory sensitisation.)

Polymethylene polyphenyl isocyanate

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,02 mg/m³

Short-term exposure limit (15-minute reference period): - ppm | 0,07 mg/m³

Comments: Sen (Sen = Capable of causing respiratory sensitisation.)

DNEL / PNEC

DNEL (Polymethylene polyphenyl isocyanate): 50 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 0.1 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 28.7 mg/cm²

Exposure: Dermal

Duration of Exposure: Short term – Local effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 0.1 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 0.05 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 0.05 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (Polymethylene polyphenyl isocyanate): 25 mg/kg bw/day

Exposure: Dermal

Duration of Exposure: Short term – Systemic effects - General population

DNEL (Polymethylene polyphenyl isocyanate): 0.05 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Systemic effects - General population

DNEL (Polymethylene polyphenyl isocyanate): 20 mg/kg bw/day

Exposure: Oral

Duration of Exposure: Short term – Systemic effects - General population

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DNEL (Polymethylene polyphenyl isocyanate): 17.2 mg/cm²
Exposure: Dermal
Duration of Exposure: Short term – Local effects - General population

DNEL (Polymethylene polyphenyl isocyanate): 0.05 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Local effects - General population

DNEL (Polymethylene polyphenyl isocyanate): 0.025 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population

PNEC (Polymethylene polyphenyl isocyanate): 1 mg/l
Exposure: Freshwater

PNEC (Polymethylene polyphenyl isocyanate): 0.1 mg/l
Exposure: Marine water

PNEC (Polymethylene polyphenyl isocyanate): 1 mg/kg
Exposure: Soil

PNEC (Polymethylene polyphenyl isocyanate): 1 mg/l
Exposure: Sewage Treatment Plant

PNEC (Polymethylene polyphenyl isocyanate): 10 mg/l
Exposure: Intermittent release

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Exhaust air that contains the substances shall not be recirculated. Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and - showers are clearly marked.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep containment materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

If ventilation at the work place is insufficient, use a half- or full mask with an appropriate filter or an air-supplied breathing apparatus depending on the specific work situation and how long you will be using the product.

Skin protection

Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work

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with the product.

Hand protection

Nitrile rubber

Breakthrough time: > 480 minutes (Class 6)

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Black
Odour	Characteristic
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	1,2

Phase changes

Melting point (°C)	190
Boiling point (°C)	190
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	111
Ignition (°C)	400
Auto flammability (°C)	no
Explosion limits (% v/v)	No data available.
Explosive properties	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

Nothing special

10.4. Conditions to avoid

Nothing special

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Substance: Carbon black

Species: Rabbit

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Test: LD50
Route of exposure: Dermal
Result: >3g/kg

Substance: Carbon black
Species: Rat
Test: LD50
Route of exposure: Oral
Result: >15400 mg/kg

Substance: di-isodecyl phthalate
Species: Rabbit
Test: LD50
Route of exposure: Oral
Result: 64000 mg/kg bw

Substance: 4,4'-methylenediphenyl diisocyanate
Species: Mouse
Test: LD50
Route of exposure: Oral
Result: 2,200 mg/kg

Substance: Polymethylene polyphenyl isocyanate
Species: Rabbit
Test: LD50
Route of exposure: Dermal
Result: > 9400 mg/kg

Substance: Polymethylene polyphenyl isocyanate
Species: Rat
Test: LC50
Route of exposure: Inhalation
Result: 0.49 mg/l/4h

Substance: Polymethylene polyphenyl isocyanate
Species: Rat
Test: LD50
Route of exposure: Oral
Result: 49 g/kg

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

No data available.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

No data available.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available.

Long term effects

Carcinogenic effects: This product contains substances considered or proven to be carcinogenic. The carcinogenic effects may be triggered subsequent to exposure through inhalation, skin contact or ingestion. Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs. Exposure may result in an increased absorption potential of other hazardous substances at the

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area of exposure.

SECTION 12: Ecological information

12.1. Toxicity

Substance: Polymethylene polyphenyl isocyanate
 Species: Algae
 Test: EC50
 Duration: 72 h
 Result: >1640 mg/l

Substance: Polymethylene polyphenyl isocyanate
 Species: Daphnia
 Test: EC50
 Duration: 24 h
 Result: > 1000 mg/l

Substance: Polymethylene polyphenyl isocyanate
 Species: Fish
 Test: LC50
 Duration: 96 h
 Result: > 1000 mg/l

12.2. Persistence and degradability

Substance
 No data available.

Biodegradability

Test

Result

12.3. Bioaccumulative potential

Substance
 Polymethylene polyphenyl isocy...

Potential bioaccumulation
 Yes

LogPow
 No data available

BCF
 200

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code
 08 05 01 waste isocyanates

Specific labelling

Not applicable

Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number -

14.2. UN proper shipping name -

14.3. Transport hazard -

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class(es)
14.4. Packing group -
Notes -
Tunnel restriction code -

IMDG

UN-no. -
Proper Shipping Name -
Class -
PG* -
EmS -
MP** -
Hazardous constituent -

IATA/ICAO

UN-no. -
Proper Shipping Name -
Class -
PG* -

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

Additional information

Not applicable

Seveso

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Biocidal reg. no.

Not applicable

Sources

Council Directive 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677. The Stationery Office, 2002.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives

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67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
Regulation (EC) 1907/2006 (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

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 through prolonged or repeated exposure.

The full text of identified uses as mentioned in section 1

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Additional label elements

Not applicable

Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP)

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

pipe/CHYMEIA

Date of last essential change (First cipher in SDS version)

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Date of last minor change (Last cipher in SDS version)

-