

SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

silco

Product name: **5050 PowerFix component B**

Creation date: **18.11.2020**, Revision: **18.02.2025**, Version: **1.4**

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

1.1 Product identifier

Product name

5050 PowerFix component B



<https://my.chemius.net/p/hBxrf0/en/pd/en>

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

Relevant identified uses

PU adhesive

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Manufacturer

SILCO, D.O.O.
Šentrupert 5 a
3303 Gomilsko, Slovenia
+386 3 703 3180
msds@silco.si

1.4 Emergency Telephone Number

Emergency

111

Manufacturer

+386 3 703 3180

Section 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Irrit. 2; H319 Causes serious eye irritation.

Acute Tox. 4; H332 Harmful if inhaled.

Resp. Sens. 1; H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

STOT SE 3; H335 May cause respiratory irritation.

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Carc. 2; H351 Suspected of causing cancer.

STOT RE 2; H373 May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: **DANGER**

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.

P102 Keep out of reach of children.

P202 Do not handle until all safety precautions have been read and understood.

P284 Wear respiratory protection.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 + P364 Take off contaminated clothing and wash it before reuse.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

Modified MDI

'4,4'-methylenediphenyl diisocyanate

Diphenylmethane diisocyanate, isomers and homologues

Special provisions

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.

2.3 Other hazards

PBT/vPvB

No information.

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Additional information

No information.

Section 3: Composition/information on ingredients

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3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

| Name | CAS EC Index REACH | % | Classification according to Regulation (EC) No 1272/2008 (CLP) | Specific Concentration Limits |
|---|--|-------|---|---|
| Modified MDI | 155662-82-1 - - | 24-47 | 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 | / |
| '4,4'-methylenediphenyldiisocyanate | 101-68-8 202-966-0 615-005-00-9 | 24-47 | 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 | Skin Irrit. 2; H315; C ≥ 5% Eye Irrit. 2; H319; C ≥ 5% Resp. Sens. 1; H334; C ≥ 0.1% STOT SE 3; H335; C ≥ 5% |
| Diphenylmethane diisocyanate, isomers and homologues | 9016-87-9 202-966-0 - | 10-24 | Skin Irrit. 2; H315 Eye Irrit. 2; H319 Resp. Sens. 1; H334 STOT SE 3; H335 Carc. 2; H351 STOT RE 2; H373 | / |
| diphenylmethane-2,4'-diisocyanate | 5873-54-1 227-534-9 615-005-00-9 | 2-6 | 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 | Skin Irrit. 2; H315; C ≥ 5% Eye Irrit. 2; H319; C ≥ 5% Resp. Sens. 1; H334; C ≥ 0.1% STOT SE 3; H335; C ≥ 5% |

Notes for substances

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- C** Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers.

In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Section 4: First aid measures

4.1 Description of first aid measures

General notes

When in doubt or if feeling unwell seek medical assistance.

Following inhalation

Remove patient to fresh air – move out of dangerous area. If victim is not breathing, give artificial respiration. If symptoms develop and persist, seek medical attention.

Following skin contact

Immediately remove contaminated clothing. Wash affected skin areas immediately with plenty of water and soap. If symptoms develop and persist, seek medical attention.

Following eye contact

If substance has got into eyes, immediately wash out with plenty of water for several minutes. Seek medical advice.

Following ingestion

Do not induce vomiting! Rinse mouth with water and drink a glass of water by sips! Immediately consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

No information.

Following skin contact

No data available.

Following eye contact

No information.

Following ingestion

No information.

4.3 Indication of any immediate medical attention and special treatment needed

No information.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam.
Fire extinguishing powder.

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Carbon dioxide (CO₂).

Water spray.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

Risk of formation of toxic pyrolysis products. In the event of fire the following is released: nitrogen oxides (NO_x).

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours.

Special protective equipment for fire-fighters

Full protective clothing and self-contained breathing apparatus.

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

Section 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). Do not breathe vapours/smoke!

Precautionary measures

No information.

Emergency procedures

No information.

For emergency responders

High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems and ground water. In case of spillage prevent environment contamination with appropriate dam.

6.3 Methods and material for containment and cleaning up

For containment

No information.

For cleaning up

Absorb with inert material (sand, flintstone (diatomite soil), universal binder, sawdust). Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor.

Other information

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No information.

6.4 Reference to other sections

See also sections 8 and 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. Special safety precautions are not necessary; handle according to work instructions.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

No information.

Other measures

No information.

Advice on general occupational hygiene

No information.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Store between +10°C to 25°C.

Packaging materials

No information.

Requirements for storage rooms and vessels

Keep in tightly closed vessels.

Storage temperature

No information.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

No information.

Industrial sector specific solutions

No information.

Section 8: Exposure controls/personal protection

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8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

DNEL/DMEL values

For product

No information.

For components

No information.

PNEC values

For product

No information.

For components

No information.

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Use good personal hygiene practices – wash hands at breaks and when done working with material.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Do not eat, drink or smoke while working. Remove all contaminated clothes immediately and wash them before reuse.

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration.

Personal protective equipment

Eye and face protection

Safety goggles (BS EN ISO 16321-1:2022).

Hand protection

Protective gloves (EN ISO 374-1:2016).

Appropriate materials

| Material | Thickness | Penetration Time | Remark |
|--------------|-----------|------------------|--------|
| Butyl rubber | / | 120 min | / |

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022).

Respiratory protection

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Not needed under normal use and adequate ventilation.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

No information.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

No information.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Important health, safety and environmental information

| | |
|--|-----------------------|
| Physical state | liquid |
| Shape | No information. |
| Colour | black |
| Odour | characteristic |
| Odour threshold | No information. |
| Melting/freezing point or softening point | No information. |
| Boiling point or initial boiling point and boiling range | > 200 °C |
| Flammability | > 600 °C |
| Lower and upper explosion limit | No information. |
| Flash point | 230 °C |
| Auto-ignition temperature | No information. |
| Decomposition temperature | No information. |
| pH | No information. |
| Viscosity | No information. |
| Solubility (Water) | Insoluble |
| Partition coefficient n-octanol/water (log value) | No information. |
| Vapour pressure | No information. |
| Density | 1.2 g/cm ³ |
| Relative vapour/gas density | No information. |
| Particle characteristics | No information. |

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9.2 Other information

Information with regard to physical hazard classes

No information.

Other safety characteristics

No information.

Section 10: STABILITY AND REACTIVITY

10.1 Reactivity

No information.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

No information.

10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage.

10.5 Incompatible materials

Acids. Strong oxidising agents.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected.

Section 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

(a) Acute toxicity

For components

| Name | Exposure route | Type | Species | Time | Value | Method | Remark |
|-----------------------------------|----------------|------------------|---------|------|------------|--------|--------|
| diphenylmethane-2,4'-diisocyanate | oral | LD ₅₀ | rat | / | 5000 mg/kg | / | / |

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| Name | Exposure route | Type | Species | Time | Value | Method | Remark |
|--|----------------|------------------|---------|------|------------|--------|--------|
| diphenylmethane-2,4'-diisocyanate | dermal | LD ₅₀ | rabbit | / | 5000 mg/kg | / | / |
| diphenylmethane-2,4'-diisocyanate | inhalation | LC ₅₀ | rat | 4 h | 0.49 mg/l | / | vapour |

(b) Skin corrosion/irritation

No information.

(c) Serious eye damage/irritation

No information.

(d) Respiratory or skin sensitisation

No information.

(e) (Germ cell) mutagenicity

No information.

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

No information.

Summary of evaluation of the CMR properties

Suspected of causing cancer.

(h) STOT-single exposure

No information.

(i) STOT-repeated exposure

No information.

(j) Aspiration hazard

No information.

Symptoms related to the physical, chemical and toxicological characteristics

No information.

Interactive effects

No information.

11.2 Information on other hazards

Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

Other information

No information.

Section 12: Ecological information

12.1 Toxicity

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Acute (short-term) toxicity

For components

| Name | Type | Value | Exposure time | Species | Organism | Method | Remark |
|------------------------------------|------------------|-----------|---------------|-----------|----------|--------|--------|
| diphenyl methane-2,4'-diisocyanate | LC ₅₀ | 1000 mg/L | 96 h | fish | / | / | / |
| diphenyl methane-2,4'-diisocyanate | EC ₅₀ | 1000 mg/L | 48 h | crustacea | / | / | / |

Chronic (long-term) toxicity

No information.

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

No information.

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log value)

No information.

Bioconcentration factor (BCF)

No information.

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

No information.

12.5 Results of PBT and vPvB assessment

No evaluation.

12.6 Endocrine disrupting properties

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The product does not contain substances with the potential for endocrine disorders.

12.7 Other adverse effects

No information.

12.8 Additional information

For product

No ecotoxicological data available.

Section 13: Disposal considerations

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

Waste codes / waste designations according to LoW

08 04 09* - waste adhesives and sealants containing organic solvents or other dangerous substances

Packaging

Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Completely emptied and cleaned containers leave to approved waste disposal authorities in charge.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

No information.

Other disposal recommendations

No information.

Section 14: Transport information

| ADR/RID | IMDG | IATA | ADN |
|---|---|---|---|
| 14.1 UN number or ID number | | | |
| Not dangerous according to transport regulations. | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. | Not dangerous according to transport regulations. |
| 14.2 UN proper shipping name | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |

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| ADR/RID | IMDG | IATA | ADN |
|---|--|--------------------------|--|
| 14.3 Transport hazard class(es) | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |
| 14.4 Packing group | | | |
| Not given/not applicable | Not given/not applicable | Not given/not applicable | Not given/not applicable |
| 14.5 Environmental hazards | | | |
| NO | NO | NO | NO |
| 14.6 Special precautions for user | | | |
| Limited quantities Not given/not applicable | Limited quantities Not given/not applicable | | Limited quantities Not given/not applicable |
| 14.7 Maritime transport in bulk according to IMO instruments | | | |
| | Not given/not applicable | | |

Section 15: Regulatory information

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

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2020/878)

- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)
not applicable

Ingredients according to Regulation (EC) No 648/2004 on detergents
No information.

Special instructions
No information.

15.2 Chemical Safety Assessment

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No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Section 16: Other information

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
CEN - European Committee for Standardisation
C&L - Classification and Labelling
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
CAS# - Chemical Abstracts Service number
CMR - Carcinogen, Mutagen, or Reproductive Toxicant
CSA - Chemical Safety Assessment
CSR - Chemical Safety Report
DMEL - Derived Minimal Effect Level
DNEL - Derived No Effect Level
DPD - Dangerous Preparations Directive 1999/45/EC
DSD - Dangerous Substances Directive 67/548/EEC
DU - Downstream User
EC - European Community
ECHA - European Chemicals Agency
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)
EEC - European Economic Community
EINECS - European Inventory of Existing Commercial Substances
ELINCS - European List of notified Chemical Substances
EN - European Standard
EQS - Environmental Quality Standard
EU - European Union
Euphrac - European Phrase Catalogue
EWC - European Waste Catalogue (replaced by LoW - see below)
GES - Generic Exposure Scenario
GHS - Globally Harmonized System
IATA - International Air Transport Association
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG - International Maritime Dangerous Goods
IMSBC - International Maritime Solid Bulk Cargoes
IT - Information Technology
IUCLID - International Uniform Chemical Information Database
IUPAC - International Union for Pure Applied Chemistry
JRC - Joint Research Centre
Kow - octanol-water partition coefficient
LC50 - Lethal Concentration to 50 % of a test population
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
LE - Legal Entity

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LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

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.



- ☑ Provided correct labelling of the product
- ☑ Compliance with the local legislation
- ☑ Provided correct classification of the product
- ☑ Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.