

Safety data sheet according to EU 2015/830

Printing date 25.05.2018

Version-No. 1

Revision: 25.05.2018

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

- **1.1. Product identifier**
- Trade name / Article-No: ***Dockskin 200***
- Article number: 5820-1000
- **1.2. Relevant identified uses of the substance / mixture or uses advised against**
For professional use only
- Application of the substance / the mixture Primer
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
SIGA Cover AG
Rüt mattstr. 7
CH-6017 Ruswil
Tel. + 41 (0) 41 499 69 69
www.siga.swiss
- **Further information obtainable from:** technik@siga.swiss
- **1.4. Emergency telephone number:** + 41 (0) 41 499 69 69 during office hours

SECTION 2: Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008 - GHS/CLP**
- Acute Tox. 4 H332 Harmful if inhaled.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2 H319 Causes serious eye irritation.
- Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- Carc. 2 H351 Suspected of causing cancer.
- STOT SE 3 H335 May cause respiratory irritation.
- STOT RE 2 H373 May cause damage to the respiratory system through prolonged or repeated exposure.
Route of exposure: Inhalation.

· 2.2. Label elements

· Hazard pictograms



GHS07 GHS08

· Signal word Danger

· Hazard-determining components of labelling:

Diphenylmethane diisocyanate (isomer mixture)

· Hazard statements

H332 Harmful if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H317 May cause an allergic skin reaction.
 H351 Suspected of causing cancer.

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H335 May cause respiratory irritation.

H373 May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.

- **Precautionary statements**

P260 Do not breathe mist/vapours/spray.

P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of water and soap.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P314 Get medical advice/attention if you feel unwell.

- **Additional information:**

Contains isocyanates. May produce an allergic reaction.

- **Information concerning particular hazards for human and environment:**

- 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**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

Registry-No's	Identification / Classification GHS-CLP	%
CAS: 26447-40-5	Diphenylmethane diisocyanate (isomer mixture)	100%
Reg.nr.: 01-2119457015-45-XXXX	Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- **4.1. Description of first aid measures**

- **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- **After skin contact:**

Treat affected skin with cotton wool or cellulose. Then wash and rinse thoroughly with water and a mild cleaning agent.

If skin irritation continues, consult a doctor.

Immediately wash with water and soap and rinse thoroughly.

- **After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- **Information for doctor:**

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

No further relevant information available.

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- **4.3. Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1. Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2. Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Nitrogen oxides
Isocyanates
Traces:
Hydrogen cyanide (HCN)
- **5.3. Advice for firefighters**
- **Protective equipment:**
Mount respiratory protective device.
Wear self-contained respiratory protective device.

SECTION 6: Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Use respiratory protective device against the effects of fumes/dust/aerosol.
- **6.2. Environmental precautions:** No special measures required.
- **6.3. Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **6.4. Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **Handling:**
- **7.1. Precautions for safe handling**
Appropriate regular employee training.
Handle the substance preferably in closed system
Enclosure or extractor facilities are required.
Ensure good ventilation. This can be achieved by using a local exhaustion or general exhaust system. If these measures are insufficient to keep the vapour concentration below the workplace limit, wear an adequate respiratory protective device.
Not less than 3-5 air exchanges per hour
Prevent formation of aerosols.
Contact with skin and inhalation of aerosols/ vapours of the preparation should be avoided.
Spraying: in vented cabin with laminar air flow
Wear protective gloves/protective clothing/eye protection/face protection.
Caution: Do not refill residue into storage receptacles.
Wear suitable respiratory protective device when decanting larger quantities without extractor facilities.
Avoid contact with skin and eyes.
Absorb spilled amount immediately.
It is advised against using the product if there is a sensitivity of the airways or skin (asthma, chronic bronchitis, chronic skin disease)
additional to professional application with multiple and/or significant contact
limit the exposure to 4 hours
- **Information about fire - and explosion protection:** No special measures required.

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- **General protective and hygienic measures:** Immediately remove all soiled and contaminated clothing
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Keep container tightly closed.
- **Information about storage in one common storage facility:** Observe the national regulations.
- **Further information about storage conditions:** None.
- **7.3. Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

8.1. Control parameters

- **Ingredients with limit values that require monitoring at the workplace:**

DNELs

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

Dermal DNEL short 50 mg/kg (human being)
 Inhalative DNEL short 0.1 mg/m³ (human being)
 DNEL long term 0.05 mg/m³ (human being)

PNECs

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

PNEC- Freshwater 1 mg/l (x00)
 PNEC-seawater 0.1 mg/l (x00)
 PNEC-soil 1 mg/kg (x00)
 PNEC-wastewater treatment plant 1 mg/l (x00)

CAS No.	Designation of material	%	Type	Value	Unit
26447-40-5 Diphenylmethane diisocyanate (isomer mixture)					
AGW (Germany) Short-term value: 0.05 mg/m ³ , 0.005 ppm					
1;=2;DFG, 11, 12, Sa, Y					

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

AGW (Germany) Short-term value: 0.05 mg/m³, 0.005 ppm
 1;=2;DFG, 11, 12, Sa, Y

8.2. Exposure controls

- limit the exposure to:
8 hours
- **Personal protective equipment:**
- **General protective and hygienic measures:** Do not inhale gases / fumes / aerosols.
- **Respiratory protection:**
Use suitable respiratory protective device only when aerosol or mist is formed.
Use suitable respiratory protective device in case of insufficient ventilation:
Filter A/P2 (EN 14387)
At spray application respiratory protection must be worn.
- **Protection of hands:** Protective gloves
- **Material of gloves A** Nitrile rubber - NBR: AlphaTec® (coating thickness not applicable)
- **Eye protection:** Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

General Information

Appearance:

Form: Fluid
Colour: Whitish
Odour: Weak, characteristic
Odour threshold: Not determined.
pH-value: Not determined.

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- **Change in condition**
 - Melting point/freezing point:** Undetermined.
 - Initial boiling point and boiling range:** 208 °C
- **Flash point:** 212 °C
- **Flammability (solid, gas):** Not applicable.
- **Ignition temperature:** >400 °C
- **Decomposition temperature:** Not determined.
- **Auto-ignition temperature:** Product is not selfigniting.
- **Explosive properties:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** 0.4 Vol %
 - Upper:** 0.0 Vol %
- **Vapour pressure:** Not determined.
- **Density at 20 °C:** ca. 1.2 g/cm³
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- **Partition coefficient: n-octanol/water:** Not determined.
- **Viscosity:**
 - Dynamic at 20 °C:** ca. 420 mPas
Method: Brookfield RVT
 - Kinematic:** Not determined.
 - Solids content:** 100.0 %
- **9.2. Other information** No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1. Reactivity** see item 10.3
- **10.2. Chemical stability** Stable when stored and used properly.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3. Possibility of hazardous reactions** No dangerous reactions known.
- **10.4. Conditions to avoid** No further relevant information available.
- **10.5. Incompatible materials:** No further relevant information available.
- **10.6. Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1. Information on toxicological effects**
 - **Acute toxicity**
Harmful if inhaled.
 - **LD/LC₅₀ values relevant for classification:**

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)

Oral	LD ₅₀	>10,000 mg/kg (rat)
Dermal	LD ₅₀	>9,400 mg/kg (rabbit)
Inhalative	LC ₅₀ /4h _(dust,mist)	0.49 mg/l (rat)
 - **Primary irritant effect:**
 - **Skin corrosion/irritation**
Causes skin irritation.
 - **Serious eye damage/irritation**
Causes serious eye irritation.

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- **Respiratory or skin sensitisation**
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity**
Suspected of causing cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
May cause respiratory irritation.
- **STOT-repeated exposure**
May cause damage to the respiratory system through prolonged or repeated exposure. Route of exposure:
Inhalation.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1. Toxicity**
- **Aquatic toxicity:**

26447-40-5 Diphenylmethane diisocyanate (isomer mixture)
 LC₅₀ >1,000 mg / l / 96h (fish)
 EC₅₀ >1,000 mg / l / 24h (water flea - Daphnia)
- **12.2. Persistence and degradability** No further relevant information available.
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Behaviour in sewage processing plants:**
- **Remark:**
At correct sewage disposal in small quantities to biological sewage plants failures of the activated sludge are not expected.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6. Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**
08 05 01* waste isocyanates
- **Uncleaned packaging:**
- **Recommendation:**
Non contaminated packagings may be recycled.
Empty contaminated packagings thoroughly. Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-------------------|
| · 14.1. UN-Number | No dangerous good |
| · ADR, ADN, IMDG, IATA | Void |
| · 14.2. UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · 14.3. Transport hazard class(es) | |
| · Class | Void |

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- **14.4. Packing group**
- **ADR, IMDG, IATA** Void
- **14.5. Environmental hazards:**
- **Marine pollutant:** No
- **14.6. Special precautions for user** Not applicable.
- **14.7. Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

SECTION 15: Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
See position no 2 - Hazards Identification
- **EU-Regulations**
26447-40-5 Diphenylmethane diisocyanate (isomer mixture): REACH, Annex XVII, No. 56
- **Directive 2012/18/EU - Seveso-III:**
- **Named dangerous substances - ANNEX I** None of the ingredients is included.
- **National regulations:**
- **D: Waterhazard class** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Other regulations, limitations and prohibitive regulations: Restricted to professional users.**
- **EU: VOC - Volatile Organic Compounds (Directive 13/1999/EC)**
- **VOC - portion [g/L]:** 0.0 g/l
- **VOC - portion [mass-%]:** 0.00 %
- **National Regulations (others than Germany or EU)**
- **DK: MAL-Code:** 5-5
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant 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 the respiratory system through prolonged or repeated exposure. Route of exposure: Inhalation.
- **Department issuing SDS:** Safety & Environment
- **Abbreviations and acronyms:**
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
ICAO: International Civil Aviation Organisation
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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