acc. to Regulation (EC) No. 1907/2006 (REACH)



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#### Sudan black B (C.I. 26150) for microscopy

article number: **0292** Version: **3.0 en** Replaces version of: 2021-10-15 Version: (2)

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

1.1 Product identifier

| Identification of the substance   | Sudan black B (C.I. 26150) for microscopy |  |
|---|---|--|
| Article number  | 0292                                      |  |
| EC number   | 224-087-1                                 |  |
| CAS number  | 4197-25-5                                 |  |
| Polovant identified uses of the substance or mixture and uses advised against |   |  |

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household). Food, drink and animal feedingstuffs.

#### 1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co. KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

**Telephone:**+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 **e-mail:** sicherheit@carlroth.de **Website:** www.carlroth.de

Competent person responsible for the safety data Department Health, Safety and Environment sheet:

#### e-mail (competent person):

#### sicherheit@carlroth.de

#### 1.4 Emergency telephone number

| Name  |        | Street    | Postal<br>code/city  | Telephone    | Website |
|---|--------|-----------|----------------------|--------------|---------|
| National Poisons Inforn<br>Service<br>City Hospital | nation | Dudley Rd | B187QH<br>Birmingham | 844 892 0111 |         |

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

#### **Classification acc. to GHS**

| Section | Hazard class           | Cat-<br>egory | Hazard class and category | Hazard<br>statement |
|---------|------------------------|---------------|---------------------------|---------------------|
| 3.5     | Germ cell mutagenicity | 2             | Muta. 2                   | H341                |

For full text of abbreviations: see SECTION 16

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#### 2.2 Label elements

#### Labelling

Signal word Warning

#### **Pictograms**

GHS08



#### **Hazard statements**

H341

Suspected of causing genetic defects

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P202Do not handle until all safety precautions have been read and understoodP280Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statements - response**

P308+P313 IF exposed or concerned: Get medical advice/attention

#### **Precautionary statements - storage**

P405 Store locked up

#### **Precautionary statements - disposal**

P501 Dispose of contents/container to an authorized waste treatment facility

For professional users only

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

#### **Endocrine disrupting properties**

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

| Name of substance | Sudan black B (C.I. 26150)          |
|-------------------|-------------------------------------|
| Molecular formula | $C_{29}H_{24}N_6$                   |
| Molar mass        | 456,6 <sup>g</sup> / <sub>mol</sub> |
| CAS No            | 4197-25-5                           |
| EC No             | 224-087-1                           |

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## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures



#### **General notes**

Take off contaminated clothing.

#### **Following inhalation**

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following skin contact

Rinse skin with water/shower.

#### Following eye contact

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

#### **Following ingestion**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Symptoms and effects are not known to date.

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

none

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media



#### Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water, foam, dry extinguishing powder, ABC-powder

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Combustible.

#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

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## **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures



#### For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe dust.

#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains. Take up mechanically.

#### Advice on how to clean up a spill

Take up mechanically. Control of dust.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

## **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Avoid exposure. Avoid dust formation.

#### Measures to prevent fire as well as aerosol and dust generation

Removal of dust deposits.

#### Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

#### Conditions for safe storage, including any incompatibilities

Store in a dry place.

7.2

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Consideration of other advice:

#### Ventilation requirements

Use local and general ventilation.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

#### 7.3 Specific end use(s)

No information available.

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### **National limit values**

#### **Occupational exposure limit values (Workplace Exposure Limits)**

| Coun<br>try | Name of agent | CAS No | Identifi-<br>er | TWA<br>[mg/<br>m³] | STEL<br>[mg/<br>m³] | Ceil-<br>ing-C<br>[mg/<br>m³] | Nota-<br>tion | Source    |
|-------------|---------------|--------|-----------------|--------------------|---------------------|-------------------------------|---------------|-----------|
| GB          | dust          |        | WEL             | 10                 |                     |                               | i             | EH40/2005 |
| GB          | dust          |        | WEL             | 4                  |                     |                               | r             | EH40/2005 |

#### Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur i Inhalable fraction r Respirable fraction STFI Short-term exposure limit: a limit value above which exposure should not occur and which is

TEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

#### 8.2 Exposure controls

#### Individual protection measures (personal protective equipment)

#### Eye/face protection



Use safety goggle with side protection.

#### Skin protection



#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a consider-able reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

#### • type of material

NBR (Nitrile rubber)

material thickness

>0,11 mm

#### • breakthrough times of the glove material

>480 minutes (permeation: level 6)

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#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

#### **Respiratory protection**



Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P2 (filters at least 94 % of airborne particles, colour code: White).

#### **Environmental exposure controls**

Keep away from drains, surface and ground water.

# **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

| Physical state   | solid   |
|--|---|
| Form   | powder  |
| Colour   | dark brown - black  |
| Odour  | odourless   |
| Melting point/freezing point                             | 120 – 124 °C  |
| Boiling point or initial boiling point and boiling range | not determined  |
| Flammability   | this material is combustible, but will not ignite readily |
| Lower and upper explosion limit                          | not determined  |
| Flash point  | not applicable  |
| Auto-ignition temperature                                | not determined  |
| Decomposition temperature                                | not relevant  |
| pH (value)   | not applicable  |
| Kinematic viscosity                                      | not relevant  |
| Solubility(ies)  |   |
| Water solubility   | not determined  |
| Partition coefficient                                    |   |
| Partition coefficient n-octanol/water (log value):       | this information is not available                         |
| Vapour pressure  | not determined  |
|  |   |
| Density and/or relative density                          |   |
| Density  | not determined  |

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# ® §POTH

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| Relative vapour density                             | Information on this property is not available.                 |
|---|--|
| Particle characteristics                            | No data available.   |
| Other safety parameters                             |  |
| Oxidising properties                                | none   |
| Other information                                   |  |
| Information with regard to physical hazard classes: | hazard classes acc. to GHS<br>(physical hazards): not relevant |
| Other safety characteristics:                       | There is no additional information.                            |
|   |  |

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

9.2

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

#### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

## **SECTION 11: Toxicological information**

#### **11.1** Information on toxicological effects

#### **Classification acc. to GHS**

#### Acute toxicity

Shall not be classified as acutely toxic.

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

#### Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

#### Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

#### Germ cell mutagenicity

Suspected of causing genetic defects.

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#### Carcinogenicity

Shall not be classified as carcinogenic.

#### **Reproductive toxicity**

Shall not be classified as a reproductive toxicant.

#### Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

#### Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

#### Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

Data are not available.

#### • If in eyes

Data are not available.

#### If inhaled

Data are not available.

#### • If on skin

Data are not available.

#### Other information

Substance not yet fully tested.

#### 11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

#### 11.3 Information on other hazards

There is no additional information.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

#### 12.2 Persistence and degradability

Theoretical Oxygen Demand (without nitrification): 2,138  $^{mg}/_{mg}$  Theoretical Oxygen Demand (with nitrification): 2,468  $^{mg}/_{mg}$  Theoretical Carbon Dioxide: 2,795  $^{mg}/_{mg}$ 

#### 12.3 Bioaccumulative potential

#### Data are not available.

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

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#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of  $\ge 0,1\%$ .

12.7 Other adverse effects

Data are not available.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packagings

Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

#### 13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

# Properties of waste which render it hazardous

HP 11 mutagenic

#### 13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

# SECTION 14: Transport information14.1 UN number or ID numbernot subject to transport regulations14.2 UN proper shipping namenot assigned14.3 Transport hazard class(es)none14.4 Packing groupnot assigned14.5 Environmental hazardsnon-environmentally hazardous acc. to the dan-<br/>gerous goods regulations

14.6 Special precautions for user

There is no additional information.

- **14.7** Maritime transport in bulk according to IMO instruments The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations

**International Maritime Dangerous Goods Code (IMDG) - Additional information** Not subject to IMDG.

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#### **International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information** Not subject to ICAO-IATA.

# **SECTION 15: Regulatory information**

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

**Relevant provisions of the European Union (EU)** 

**Seveso Directive** 

| 2012/ | 2012/18/EU (Seveso III)               |   |       |  |  |  |
|-------|---------------------------------------|---|-------|--|--|--|
| Νο    | Dangerous substance/hazard categories | Qualifying quantity (tonnes) for the ap-<br>plication of lower and upper-tier re-<br>quirements | Notes |  |  |  |
|       | not assigned                          |   |       |  |  |  |

#### **Deco-Paint Directive**

| VOC content | 0 % |
|-------------|-----|
|-------------|-----|

#### **Industrial Emissions Directive (IED)**

| VOC content | 0 % |
|-------------|-----|
|-------------|-----|

# Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

not listed

# Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

not listed

#### Water Framework Directive (WFD)

| st of pollutants (WFD)     |  |        |           |         |
|----------------------------|--|--------|-----------|---------|
| Name of substance          | Name acc. to inventory   | CAS No | Listed in | Remarks |
| Sudan black B (C.I. 26150) | Substances and preparations, or<br>the breakdown products of such,<br>which have been proved to pos-<br>sess carcinogenic or mutagenic<br>properties or properties which<br>may affect steroidogenic, thyroid,<br>reproduction or other endocrine-<br>related functions in or via the<br>aquatic environment |        | a)        |         |

Legend

a) Indicative list of the main pollutants

# Regulation on the marketing and use of explosives precursors

not listed

#### **Regulation on drug precursors**

not listed

#### **Regulation on substances that deplete the ozone layer (ODS)** not listed

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Regulation concerning the export and import of hazardous chemicals (PIC)

not listed

#### **Regulation on persistent organic pollutants (POP)**

not listed

#### National regulations(GB)

# List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list not listed

not listed

#### **Restrictions according to GB REACH, Annex 17**

not listed

#### **Other information**

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

#### **National inventories**

| Country | Inventory | Status                       |
|---------|-----------|------------------------------|
| AU      | AIIC      | substance is listed          |
| CA      | DSL       | substance is listed          |
| CN      | IECSC     | substance is listed          |
| EU      | ECSI      | substance is listed          |
| JP      | CSCL-ENCS | substance is listed          |
| KR      | KECI      | substance is listed          |
| NZ      | NZIoC     | substance is listed          |
| PH      | PICCS     | substance is listed          |
| TR      | CICR      | substance is listed          |
| TW      | TCSI      | substance is listed          |
| US      | TSCA      | substance is listed (ACTIVE) |
| VN      | NCI       | substance is listed          |

#### Legend

AIICAustralian Inventory of Industrial ChemicalsCICRChemical Inventory and Control RegulationCSCL-ENCSList of Existing and New Chemical Substances (CSCL-ENCS)DSLDomestic Substances List (DSL)ECSIEC Substance Inventory (EINECS, ELINCS, NLP)IECSCInventory of Existing Chemical Substances Produced or Imported in ChinaKECIKorea Existing Chemicals InventoryNCINational Chemical InventoryNZIOCNew Zealand Inventory of ChemicalsPICCSPhilippine Inventory of Chemicals and Chemical Substances (PICCS)TCSITaiwan Chemical Substance InventoryTSCAToxic Substance Control Act

#### 15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance.

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# **SECTION 16: Other information**

# Indication of changes (revised safety data sheet)

| Section | Former entry (text/value)  | Actual entry (text/value)   | Safety-<br>relev-<br>ant |
|---------|--|---|--------------------------|
| 2.2     |  | Hazard statements:<br>change in the listing (table)   | yes                      |
| 2.2     | Labelling of packages where the contents do<br>not exceed 125 ml:<br>Signal word: Warning  |   | yes                      |
| 2.2     |  | Labelling of packages where the contents do<br>not exceed 125 ml:<br>change in the listing (table)                | yes                      |
| 2.2     |  | Labelling of packages where the contents do<br>not exceed 125 ml:<br>change in the listing (table)                | yes                      |
| 2.2     |  | Labelling of packages where the contents do<br>not exceed 125 ml:<br>change in the listing (table)                | yes                      |
| 2.3     |  | Endocrine disrupting properties:<br>Does not contain an endocrine disruptor (ED) at<br>a concentration of ≥ 0,1%. | yes                      |
| 14.8    | Transport of dangerous goods by road, rail and<br>inland waterway (ADR/RID/ADN) - Additional in-<br>formation:<br>Not subject to ADR, RID and ADN. |   | yes                      |
| 15.1    | Restrictions according to REACH, Annex XVII  |   | yes                      |
| 15.1    |  | Dangerous substances with restrictions (REACH,<br>Annex XVII):<br>change in the listing (table)                   | yes                      |
| 15.1    | List of substances subject to authorisation<br>(REACH, Annex XIV)/SVHC - candidate list:<br>Not listed.  |   | yes                      |
| 15.1    |  | National regulations(GB)  | yes                      |
| 15.1    |  | List of substances subject to authorisation (GB<br>REACH, Annex 14) / SVHC - candidate list:<br>not listed        | yes                      |
| 15.1    |  | Restrictions according to GB REACH, Annex 17:<br>not listed   | yes                      |
| 15.1    |  | National inventories:<br>change in the listing (table)  | yes                      |

#### Abbreviations and acronyms

| Abbr.     | Descriptions of used abbreviations   |  |
|-----------|--|--|
| ADR       | Accord relatif au transport international des marchandises dangereuses par route (Agreement concern-<br>ing the International Carriage of Dangerous Goods by Road) |  |
| CAS       | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)   |  |
| Ceiling-C | Ceiling value  |  |
| DGR       | Dangerous Goods Regulations (see IATA/DGR)   |  |

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| Abbr.     | Descriptions of used abbreviations   |
|-----------|--|
| EC No     | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identi-<br>fier of substances commercially available within the EU (European Union) |
| ED        | Endocrine disruptor  |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li-<br>cence/)   |
| EINECS    | European Inventory of Existing Commercial Chemical Substances  |
| ELINCS    | European List of Notified Chemical Substances  |
| GB REACH  | The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)   |
| GHS       | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na-<br>tions   |
| IATA      | International Air Transport Association  |
| IATA/DGR  | Dangerous Goods Regulations (DGR) for the air transport (IATA)   |
| ICAO      | International Civil Aviation Organization  |
| IMDG      | International Maritime Dangerous Goods Code  |
| NLP       | No-Longer Polymer  |
| РВТ       | Persistent, Bioaccumulative and Toxic  |
| REACH     | Registration, Evaluation, Authorisation and Restriction of Chemicals   |
| RID       | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula-<br>tions concerning the International carriage of Dangerous goods by Rail)           |
| STEL      | Short-term exposure limit  |
| TWA       | Time-weighted average  |
| VOC       | Volatile Organic Compounds   |
| vPvB      | Very Persistent and very Bioaccumulative   |
| WEL       | Workplace exposure limit   |

#### Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

#### List of relevant phrases (code and full text as stated in section 2 and 3)

| Code | Text                                  |  |
|------|---------------------------------------|--|
| H341 | Suspected of causing genetic defects. |  |

#### Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.