

according to WHMIS

PANOX®A100 (PANOX EEA)

Print date: 30.07.2018 Product code: OB INV1031014 Revision date: 12.07.2018

1. Identification

Product identifier

PANOX®A100 (PANOX EEA)

Product group: fibers

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

Details of the supplier of the safety data sheet

Company name: SGL Carbon Fibers Ltd.

Location: Muir Of Ord, Ind. Est.

Street: Great North Road
Place: GB-IV6 7UA Muir Of Ord

Telephone: +44 (0)1463-27-4105 Telefax:44+ (0)1463-27-1470

e-mail: sds@uk.sglcarbon.de

Contact person: Richard Miller Telephone: +44 (0)1463-27-4152

Internet: http://www.sqlcarbon.com

Emergency telephone number: +49 (89) 19240 (Poison control center - TU Muenchen)

2. Hazard identification

Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

Classification according to Regulation (EC) No 1272/2008 [CLP]: not relevant

Label elements

3. Composition/information on ingredients

Mixtures

Chemical characterization

EEA

4. First-aid measures

Description of first aid measures

General information

none

After inhalation

Provide fresh air.

After contact with skin

Gently wash with plenty of soap and water.

Fibers may cause skin irritation.

After contact with eyes

Rinse cautiously with water for several minutes.

After ingestion

Rinse mouth immediately and drink plenty of water.

Indication of immediate medical attention and special treatment needed

none

5. Fire-fighting measures

Extinguishing media



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Suitable extinguishing media

Foam. Carbon dioxide (CO2). Extinguishing powder water spray

Unsuitable extinguishing media

High power water jet.

Specific hazards arising from the hazardous product

In case of fire may be liberated: Carbon dioxide (CO2). Carbon monoxide Hydrogogen Cyanide (HCN)

Special protective equipment and precautions for fire-fighters

In case of insufficient ventilation, wear suitable respiratory equipment. [EN 12021]

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid dust formation.

Wear personal protection equipment (refer to section 8). Avoid dust formation. Further remarks: Section 8

For emergency personal:

Wear personal protection equipment (refer to section 8). [DIN EN 469, EN 12021]

Environmental precautions

none

Methods and material for containment and cleaning up

Take up mechanically.

Reference to other sections

Additional information Section 8 and 13

7. Handling and storage

Precautions for safe handling

Advice on protection against fire and explosion

Dust should be exhausted directly at the point of origin.

Further remarks: Section 9 (Other information)

Further information on handling

Section 8.2 "General protection and hygiene measures:"

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

none

Advice on storage compatibility

none

Further information on storage conditions

none

8. Exposure controls/Personal protection

Control parameters

Additional advice on limit values

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be

Worker, industry. and Worker, professional.:

DNEL/DMEL (inhalation.): 10 mg/m3

Exposure controls

Appropriate engineering controls

Dust: 10 mg/m³ (inhalable); 1.25 mg/m³ (alveolar) [TRGS 900]



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Procedures to check the limit monitoring: [DIN EN 481].

Protective and hygiene measures

When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

Do not use a brush or compressed air for cleaning surfaces or clothing. Use approved industrial vacuum cleaner for removal.

Protect skin by using skin protective cream.

Eye/face protection

Dust protection goggles.

Hand protection

Suitable gloves type:

NR (natural rubber, natural latex) NBR (Nitrile rubber) Butyl caoutchouc (butyl rubber)

Skin protection

Recommendation Protective suit.

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. IEN 143871

Half-face mask or quarter facepiece: maximum use concentration for substances with exposure limits: P1 filter: up to a max. of 4 times the exposure limit. P2 filter: up to a max. of 10 times the exposure limit. P3 filter: up to a max. of 30 times the expo.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: solid
Colour: grey / black
Odour: none

Test method

pH-Value: not applicable

Changes in the physical state

Melting point:not applicableInitial boiling point and boiling range:not applicableSublimation point:not applicableSoftening point:not applicableFlash point:not applicable

Flammability

Solid: not applicable

Explosive properties

not explosive.

Lower explosive limits:

Upper explosive limits:

Ignition temperature:

not applicable

not applicable

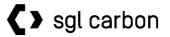
Auto-ignition temperature

Solid: none

Oxidizing properties

none

Vapour pressure: not applicable Density (at 20 $^{\circ}$ C): $\sim 1.4 \text{ g/cm}^3$



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Water solubility: 0.0047 g/L OECD 105 / EU A.6

(at 20 °C)

Partition coefficient: not applicable Viscosity / dynamic: not applicable

Other information

Carbon fibers are electrically conductive.

Carbon Fibre are non-combustible; DIN4102-1 (tested temperature: 1050 °C)

10. Stability and reactivity

Conditions to avoid

none

Incompatible materials

none

Hazardous decomposition products

none

Further information

none

11. Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution

No toxical data available.

Acute toxicity

Based on available data the classification criteria are not met. Acute toxicity (oral): LD50: > 2000 mg/kg bw/day [Rat] (OECD 423)

Acute toxicity (dermal): No data available Acute toxicity (inhalative): No data available

Subacute oral toxicity (Rat) OECD 422:

859 mg/kg bw/day (male)

1051 mg/kg bw/day (female premating)

994 mg/kg bw/day (female gestation)

1521mg/kg bw/day (female lactation)

Irritation and corrosivity

Skin corrosion/irritation: Not an irritant. [Rat] (OECD 404) Irritant effect on the eye: Not an irritant. [Rabbit] (OECD 405)

Sensitizing effects

Respiratory or skin sensitisation:

Severe effects after repeated or prolonged exposure

STOT-RE

Based on available data the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data the classification criteria are not met.

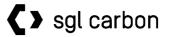
Aspiration hazard

No data available

Specific effects in experiment on an animal

STOT-RE

Based on available data the classification criteria are not met.



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12. Ecological information

Ecotoxicity

Acute (short-term) fish toxicity: LC50: > 100 mg/l Exposure time: (96 h) Method: OECD 203 Acute Daphnia toxicity: EC50 > 100 mg/l Exposure time: (48 h) Method: OECD 202

Algae toxicity: EC50 > 100 mg/l Exposure time: (72 h) Method: OECD 201 Bacterial toxicity: > 1000 mg/l Exposure time: (3 h) Method: OECD 209

Persistence and degradability

not relevant

Bioaccumulative potential

not relevant

Mobility in soil

No information available.

Other adverse effects

No adverse effects known.

13. Disposal considerations

Waste treatment methods

Advice on disposal

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

Contaminated packaging

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

14. Transport information

Marine transport (IMDG)

<u>United Nations proper shipping</u> No dangerous good in sense of these transport regulations.

name:

Air transport (ICAO-TI/IATA-DGR)

<u>United Nations proper shipping</u> No dangerous good in sense of these transport regulations.

name:

15. Regulatory information

Canadian regulations

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

16. Other information

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)