

according to Regulation (EC) No 1907/2006

PANOX EEA

Print date: 09.01.2013

Product code: OB_INV1031014

Revision date: 09.01.2013

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

PANOX EEA

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

Oxidised polyacrylonitrile fibre

1.3. 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:	Ian MacAskill	Telephone: +44 (0)1463-27-4152
Internet:	http://www.sglcarbon.com	

1.4. Emergency telephone: +44 (0)1463 870000**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GHS classification**

This mixture is not classified as dangerous according to Regulation (EC) No. 1272/2008.

2.2. Label elements**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Oxidised polyacrylonitrile fibre EEA

REACH Article 33 (SVHC): This Product contains no chemical substance, that is listed in Article 59 (1, 10) of Regulation (EC) No. 1907/2006.

according to Regulation (EC) No 1907/2006

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Components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
-	Polyacrylonitrile, oxidized	> 98 %
68908-35-0		
-		
	Nonylphenol ether with EO	<0.1%
9016-45-9	Xi - Irritant, N - Dangerous for the environment R36/38-51-53	
271-657-0	Cocoyl diethanolamide	< 0.1%
68603-42-9	Xi - Irritant R38-41	

Full text of R- and H-phrases: see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

none/none

After inhalation

Provide fresh air.

After contact with skinGently 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 large quantities of water.

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

none/none

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

none/none

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Foam. Carbon dioxide (CO₂). Extinguishing powder. Water spray.**Extinguishing media which must not be used for safety reasons**

High power water jet.

5.2. Special hazards arising from the substance or mixtureCan be released in case of fire: Carbon dioxide (CO₂). Carbon monoxide. Hydrocyanic acid (HCN)**5.3. Advice for firefighters**

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

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SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid generation of dust.

Wear personal protection equipment. Avoid generation of dust. Further remarks: Section 8

For emergency personal:

Wear personal protection equipment. [DIN EN 469, EN 12021]

6.2. Environmental precautions

none/none

6.3. Methods and material for containment and cleaning up

Collect mechanically.

6.4. Reference to other sections

Additional information: Section 8 and 13

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

none/none

Advice on protection against fire and explosion

Dust should be vacuumed up immediately at the place it occurs.

Further remarks: Section 9 (Other information)

Further information on handling

Section 8.2 "General protection and hygiene measures:"

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

none/none

Advice on storage compatibility

none/none

Further information on storage conditions

none/none

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Additional advice on limit values**

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn.

8.2. Exposure controls**Occupational exposure controls**"Dust: 10 mg/m³ (inhalable); 3 mg/m³ (alveolar) [TRGS 900]"

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

Protective and hygiene measures

none/none

Respiratory protection

If technical suction or ventilation measures are not possible or are insufficient, protective breathing apparatus must be worn. [EN 14387]

Hand protection

Suitable gloves type:

NR (Natural rubber (Caoutchouc), Natural latex). NBR (Nitrile rubber). Butyl rubber.

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PANOX EEA

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Eye protection

Dust protection goggles.

Skin protection

Recommendation: Protective suit.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

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

Test method

pH-Value: not applicable

Changes in the physical state

Melting point: not applicable
 Boiling point: not applicable
 Sublimation point: not applicable
 Softening point: not applicable
 Flash point: not applicable

Flammability

Solid: not applicable

Explosive properties

not explosive.

Lower explosion limits: not applicable

Upper explosion limits: not applicable

Ignition temperature: none/none

Auto-ignition temperature

Solid: none/none

Oxidizing properties

none/none

Vapour pressure: not applicable

Density (at 20 °C): ~ 1.4 g/cm³Water solubility: none/none
(at 20 °C)

Partition coefficient: not applicable

Viscosity / dynamic: not applicable

9.2. Other information

Carbon fibers are electrically conductive.

SECTION 10: Stability and reactivity**10.1. Reactivity**

none/none

10.2. Chemical stability

No adverse effects known.

10.3. Possibility of hazardous reactions

none/none

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PANOX EEA

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10.4. Conditions to avoid

none/none

10.5. Incompatible materials

none/none

10.6. Hazardous decomposition products

none/none

Further information

none/none

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicokinetics, metabolism and distribution**

No toxic data available.

SECTION 12: Ecological information**12.1. Toxicity**

No data available

12.2. Persistence and degradability

No adverse effects known.

12.3. Bioaccumulative potential

No adverse effects known.

12.4. Mobility in soil

No adverse effects known.

12.5. Results of PBT and vPvB assessment

No adverse effects known.

SECTION 13: Disposal considerations**13.1. 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.

SECTION 14: Transport information**Land transport (ADR/RID)****14.2. UN proper shipping name:**

Not a hazardous material with respect to these transportation regulations.

Inland waterways transport**14.2. UN proper shipping name:**

Not a hazardous material with respect to these transportation regulations.

Marine transport**14.2. UN proper shipping name:**

Not a hazardous material with respect to these transportation regulations.

Air transport**14.2. UN proper shipping name:**

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water contaminating class (D): - - not water contaminating

15.2. Chemical Safety Assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Abbreviations and acronyms**

"A - Alveolengängig; ADR - Accord européen relatif au transport international des marchandises Dangereuses par Route; bw - Body Weight; CAS - Chemical Abstract Service; CSR - Chemical Safety Report; DFG Deutsche Forschungsgemeinschaft; DIN - Deutsche Industrie Norm; DNEL - Derived No Effect Level; E - Einatembar; EAKV - Europäischer Abfallkatalog Verordnung; EC - Effective Concentration; EC - Effect Concentration European Commission; EINECS - European Inventory of Existing Commercial Chemical Substances; ELINCS - European List of Notified Chemical Substances; EN - Europäische Norm; LC - Lethal Concentration; LD - Lethal Dosis; NOAEL - No Observed Adverse Effect Level; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative and Toxic; RE - Repeated Exposure; REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals;" "RID - Règlement concernant le transport international ferroviaire de marchandises dangereuses; SE - Single Exposure; STOT - Specific Target Organ Toxicity; TA - Technische Anleitung; UN - United Nations; VCI - Verband der Chemischen Industrie; vPvB - Very Persistent and very Bioaccumulative; VwVwS - Verwaltungsvorschrift wassergefährdender Stoffe;"

Full text of R-phrases referred to under sections 2 and 3

36/38	Irritating to eyes and skin.
38	Irritating to skin.
41	Risk of serious damage to eyes.
51	Toxic to aquatic organisms.
53	May cause long-term adverse effects in the aquatic environment.

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.)