

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

### 1.1. Product identifier

Trade name or designation of the mixture	S&P C-Sheet 240, S&P C-Sheet 640
Registration number	-
Synonyms	None.
Issue date	15-December-2014
Version number	02
Revision date	11-January-2016
Supersedes date	15-December-2014

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

Identified uses	Structural reinforcement.
Uses advised against	None known.

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

Manufacturer	S&P Clever Reinforcement Company AG
Address	Seewernstrasse 127, CH 6423 Seewen
Country	Switzerland
Telephone number	+41 41 825 00 70
e-mail	info@sp-reinforcement.ch

### 1.4. Emergency telephone number

Emergency phone (Access code):	+1 760 476 3961 (334090)
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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

According to REACH Regulation 1907/2006 EC, the product is considered as an article. The preparation of a safety data sheet in accordance with Article 31 of the Regulation (EC) No.1907/2006 is not legally required for articles.

As being an article the product does not require label in accordance with CLP Regulation (EC) No. 1272/2008 and this safety data sheet (SDS) is provided on the voluntary basis for information purpose only.

### Classification according to Regulation (EC) No 1272/2008 as amended

The product is an article and therefore the classification requirements according to Regulation (EC) 1272/2008 as amended do not apply.

**Hazard summary** Low hazard for recommended handling by trained personnel.

### 2.2. Label elements

#### Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms	None.
Signal word	None.
Hazard statements	Exempt (manufactured article).

#### Precautionary statements

Prevention	Observe good industrial hygiene practices.
Response	Wash skin with soap and water.
Storage	Store away from heat. Keep dry.
Disposal	Dispose of waste and residues in accordance with local authority requirements.

**Supplemental label information** None.

### 2.3. Other hazards

Processing may generate hazardous fumes and dusts. Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eye, mucous membranes and respiratory tract. May cause irritation through mechanical abrasion. Exposure to smoke or fumes evolved during cutting, machining, or grinding operations may cause sneezing or coughing, and irritate the nose, throat, and upper respiratory tract. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Carbon Fiber on basis polyacrylonitrile (carbon)	90-96	308063-67-4 231-153-3	-	-	
<b>Classification:</b>	-				
Non-hazardous ingredients	4-10	N/A	-	-	
<b>Classification:</b>	-				

**Composition comments** All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

## SECTION 4: First aid measures

**General information** Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

### 4.1. Description of first aid measures

**Inhalation** In case of inhalation of fumes from heated product: Move to fresh air.

**Skin contact** Sharp edges may cause cuts and irritation. Cuts or abrasions should be treated promptly with thorough cleansing of the affected area.

**Eye contact** If exposed to fumes or smoke flush eyes with large amount of water for at least 15 minutes. Dust in the eyes: Do not rub eye. Flush thoroughly with water. If irritation occurs, get medical assistance.

**Ingestion** Not likely, due to the form of the product.

**4.2. Most important symptoms and effects, both acute and delayed** No specific symptoms noted.

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

## SECTION 5: Firefighting measures

**General fire hazards** This product is not flammable.

### 5.1. Extinguishing media

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** None known.

**5.2. Special hazards arising from the substance or mixture** During fire, gases hazardous to health may be formed.

### 5.3. Advice for firefighters

**Special protective equipment for firefighters** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**Special fire fighting procedures** Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel** Ensure adequate ventilation. Avoid contact with skin and eyes, which may cause lacerations.

**For emergency responders** Use personal protection recommended in Section 8 of the SDS.

**6.2. Environmental precautions** Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up** Collect spillage.  
Dust: Collect dust or particulates using a vacuum cleaner with a HEPA filter.

**6.4. Reference to other sections** For personal protection, see Section 8 of the SDS. For waste disposal, see Section 13 of the SDS.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of dust. Use work methods which minimise dust/fume production. Product may form explosive dust/air mixture if high concentration of product dust is suspended in air. Keep away from heat and sources of ignition. Avoid inhalation of fumes from heated product. Wear appropriate personal protective equipment. Wash hands after handling. Observe good industrial hygiene practices.

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

Store away from heat. Keep dry. Keep at temperature not exceeding 40°C.

### 7.3. Specific end use(s)

Structural reinforcement.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Belgium. Exposure Limit Values.

Components	Type	Value	Form
Dust (CAS -)	TWA	3 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable fraction. Inhalable fraction.

##### Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value	Form
Dust (CAS -)	TWA	3,5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable fraction. Inhalable fraction.

##### Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Dust (CAS -)	TWA	5 mg/m <sup>3</sup>	Dust.

##### Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value	Form
Dust (CAS -)	TWA	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable dust. Total dust.

##### France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value	Form
Dust (CAS -)	VME	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable fraction. Inhalable fraction.

##### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Dust (CAS -)	TWA	4 mg/m <sup>3</sup> 0,3 mg/m <sup>3</sup>	Inhalable dust. Respirable dust.

##### Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Dust (CAS -)	AGW	10 mg/m <sup>3</sup> 1,25 mg/m <sup>3</sup>	Inhalable fraction. Respirable fraction.

##### Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value	Form
Dust (CAS -)	TWA	6 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable dust. Total inhalable dust.

##### Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value	Form
Dust (CAS -)	TWA	5 mg/m <sup>3</sup> 10 mg/m <sup>3</sup>	Respirable dust. Total dust.

**Ireland. Occupational Exposure Limits**

Components	Type	Value	Form
Dust (CAS -)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total inhalable dust.

**Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)**

Components	Type	Value	Form
Dust (CAS -)	TWA	5 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Norway. Administrative Norms for Contaminants in the Workplace**

Components	Type	Value	Form
Dust (CAS -)	TLV	5 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Total dust.

**Poland. MACs. Regulation regarding maximum permissible concentrations and intensities of harmful factors in the work environment, Annex 1**

Components	Type	Value	Form
Dust (CAS -)	TWA	10 mg/m <sup>3</sup>	Inhalable fraction.
		1 mg/m <sup>3</sup>	Respirable fraction.

**Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796)**

Components	Type	Value	Form
Dust (CAS -)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Dust (CAS -)	TWA	10 mg/m <sup>3</sup>	Dust.
		10 mg/m <sup>3</sup>	

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Components	Type	Value	Form
Dust (CAS -)	TWA	2 mg/m <sup>3</sup>	Respirable aerosol fraction
		2 mg/m <sup>3</sup>	Respirable fraction.

**Spain. Occupational Exposure Limits**

Components	Type	Value	Form
Dust (CAS -)	TWA	3 mg/m <sup>3</sup>	Respirable fraction.
		10 mg/m <sup>3</sup>	Inhalable fraction.

**Sweden. Occupational Exposure Limit Values**

Components	Type	Value	Form
Dust (CAS -)	TWA	5 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Components	Type	Value	Form
Dust (CAS -)	TWA	3 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**UK. EH40 Workplace Exposure Limits (WELs)**

Components	Type	Value	Form
Dust (CAS -)	TWA	4 mg/m <sup>3</sup>	Respirable dust.
		10 mg/m <sup>3</sup>	Inhalable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).**Recommended monitoring procedures** Follow standard monitoring procedures.**Derived no-effect level (DNEL)** Not available.

<b>Predicted no effect concentrations (PNECs)</b>	Not available.
<b>8.2. Exposure controls</b>	
<b>Appropriate engineering controls</b>	General ventilation normally adequate. Observe occupational exposure limits and minimise the risk of exposure.
<b>Individual protection measures, such as personal protective equipment</b>	
<b>General information</b>	Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.
<b>Eye/face protection</b>	Use tight fitting goggles if dust is generated by machining operation.
<b>Skin protection</b>	
<b>- Hand protection</b>	Wear suitable protective gloves to prevent cuts and abrasions. Wear suitable gloves tested to EN374. Butyl rubber gloves are recommended. Breakthrough time: > 2 hours. Suitable gloves can be recommended by the glove supplier.
<b>- Other</b>	Protective clothing is not required under normal conditions. If material is heated, wear gloves to protect against thermal burns.
<b>Respiratory protection</b>	Not necessary under normal conditions. In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P1).
<b>Thermal hazards</b>	Wear appropriate thermal protective clothing, when necessary.
<b>Hygiene measures</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.
<b>Environmental exposure controls</b>	Environmental manager must be informed of all major releases.

## SECTION 9: Physical and chemical properties

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

#### Appearance

<b>Physical state</b>	Solid.
<b>Form</b>	Solid.
<b>Colour</b>	Black.
<b>Odour</b>	None.
<b>Odour threshold</b>	Not applicable.
<b>pH</b>	Not applicable.
<b>Melting point/freezing point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability (solid, gas)</b>	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not applicable.
<b>Flammability limit - upper (%)</b>	Not applicable.
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density</b>	Not applicable.
<b>Relative density</b>	1,7 - 2
<b>Solubility(ies)</b>	Insoluble in water.
<b>Partition coefficient (n-octanol/water)</b>	Not applicable.
<b>Auto-ignition temperature</b>	Not applicable.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not explosive.
<b>Oxidising properties</b>	Not oxidising.
<b>9.2. Other information</b>	No relevant additional information available.

## SECTION 10: Stability and reactivity

<b>10.1. Reactivity</b>	The product is stable and non-reactive under normal conditions of use, storage and transport.
<b>10.2. Chemical stability</b>	Material is stable under normal conditions.
<b>10.3. Possibility of hazardous reactions</b>	No dangerous reaction known under conditions of normal use.
<b>10.4. Conditions to avoid</b>	Avoid high temperatures. Keep away from heat, sparks and open flame. Avoid dust formation.
<b>10.5. Incompatible materials</b>	Strong acids, alkalis and oxidizing agents.
<b>10.6. Hazardous decomposition products</b>	No hazardous decomposition products are known.

## SECTION 11: Toxicological information

<b>General information</b>	Occupational exposure to the substance(s) generated during processing of this material may cause adverse health effects.
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### Information on likely routes of exposure

<b>Inhalation</b>	Inhalation of dusts produced during cutting, grinding or sanding of this product may cause irritation of the respiratory tract.
<b>Skin contact</b>	The material has sharp edges, which may damage skin. May cause irritation through mechanical abrasion.
<b>Eye contact</b>	The material has sharp edges, which may damage eyes. Elevated temperatures or mechanical action may form dust and fumes which may be irritating to the eyes.
<b>Ingestion</b>	Not likely, due to the form of the product. However, ingestion of dusts generated during working operations may cause nausea and vomiting.

<b>Symptoms</b>	Mechanical irritation of skin, eyes and respiratory system.
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### 11.1. Information on toxicological effects

<b>Acute toxicity</b>	Not relevant, due to the form of the product in its manufactured and shipped state.
<b>Skin corrosion/irritation</b>	Dust may irritate skin.
<b>Serious eye damage/eye irritation</b>	Dust may irritate the eyes.
<b>Respiratory sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Skin sensitisation</b>	Based on available data, the classification criteria are not met.
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Based on available data, the classification criteria are not met.
<b>Reproductive toxicity</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not relevant, due to the form of the product.
<b>Mixture versus substance information</b>	No data available.
<b>Other information</b>	Because of the polymerically bound form of the product, the risk inherent to the active substances is minimized for all kinds of absorption.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>12.2. Persistence and degradability</b>	The product is not expected to be readily biodegradable.
<b>12.3. Bioaccumulative potential</b>	The product is not expected to bioaccumulate.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not applicable.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	The product is insoluble in water and will sediment in water systems.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.

**12.6. Other adverse effects** Generally polymer compounds may contain ingredients (raw materials) that can pose a danger to aquatic organisms should these ingredients be extracted into the water in which the organisms live. Through encapsulation in the polymeric matrix, volatility and migration of ingredients is reduced such that the bio-availability is nearly eliminated.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

**Residual waste** Dispose of in accordance with local regulations.  
**Contaminated packaging** Not applicable.  
**EU waste code** 16 03 04  
The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.  
**Disposal methods/information** Dispose of contents/container in accordance with local/regional/national/international regulations.

## **SECTION 14: Transport information**

### **ADR**

Not regulated as dangerous goods.

### **RID**

Not regulated as dangerous goods.

### **ADN**

Not regulated as dangerous goods.

### **IATA**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

**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**

#### **EU regulations**

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended**

Not listed.

**Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Not listed.

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### **Authorisations**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### **Restrictions on use**

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Not listed.

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended**

Not listed.

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding, as amended**

Not listed.

## Other EU regulations

### Directive 2012/18/EU on major accident hazards involving dangerous substances

Not listed.

### Directive 94/33/EC on the protection of young people at work

Not listed.

## Other regulations

The product is an article and therefore the classification requirements according to Regulation (EC) 1272/2008 as amended do not apply.

## National regulations

Follow national regulation for work with chemical agents.

## 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

### List of abbreviations

Not available.

### References

Not available.

### Information on evaluation method leading to the classification of mixture

Not applicable.

### Full text of any H-statements not written out in full under Sections 2 to 15

None.

### Training information

Follow training instructions when handling this material.

### Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.