

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 08.01.2015

Version 4

Revision: 28.02.2008

### 1 Identification of substance:

- **Product details**
- **Trade name:** Hifax SP 98/F/94 C11502
- **Application of the substance / the preparation:** Synthetic resin
- **Manufacturer/Supplier:**  
Kunststoffwerk VOERDE Hueck & Schade GmbH & Co. KG, Jacobstraße 13-17, 58256 Ennepetal, Germany
- **Informing department:**  
Labor und Entwicklung  
Phone: +49 (0)2333 8300-160  
Fax: +49 (0)2333 75196
- **Emergency information:** info@kw-voerde.de

### 2 Hazards identification

- **Information pertaining to particular dangers for man and environment:**  
The working steams can irritate the eyes as well as the respiratory tract.  
Spilled material may present a slipping hazard.  
Possible production of electrostatic charging when used.  
The molten product adheres to the skin and causes burns.
- **Classification system:**  
This product is, according to EEC directives 1999/45, 67/548, according to 1907/2006/EC, and following amendments, not classified as hazardous.

### 3 Composition/information on ingredients

- **Chemical characterization**
- **CAS No. Designation**  
9010-79-1
- **Chemical characterization**
- **Description:**  
Mixture of the substances listed below with harmless additives:  
Heterophasic copolymer containing mineral fillers > 10 %
- **Dangerous components:** Void

### 4 First aid measures

- **General information:**  
At room temperature the product is neither an irritant nor gives off hazardous vapours.  
The measures listed below apply to critical situations (Fire, incorrect process conditions).
- **After inhalation:**  
In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.  
Keep person warm, if necessary give mouth-to-mouth resuscitation, or artificial respiration.
- **After skin contact:**  
After contact with the molten product, cool rapidly with cold water.  
Do not pull solidified product away from the skin.  
Seek immediate medical advice.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing:**  
No specific measures have to be taken if the product is swallowed.  
Get medical advice if necessary.

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### \* 5 Fire fighting measures

**- Suitable extinguishing agents:**

Water haze  
Foam  
Carbon dioxide  
Chemical powder

**- For safety reasons unsuitable extinguishing agents: None****- Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire it can release:

water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), and when lacking oxygen (O<sub>2</sub>), carbon monoxide (CO).  
The products of the burning are dangerous.

The formation of hydrocarbons and aldehydes are possible in the initial stages of a fire (especially in between 400°C and 700°C).

**- Protective equipment: Put on breathing apparatus.****- Additional information: Heat value: 8000 - 11000 kcal/kg**

### \* 6 Accidental release measures

**- Person-related safety precautions:**

No specific measures are necessary.  
See point 8

**- Measures for environmental protection:**

No special measures required.  
See points 12 and 13.

**- Measures for cleaning/collecting:**

Small spills:  
Put into a labelled container and provide safe disposal.

Large spills:  
Act as during a limited release.  
Recycle product or dispose properly.

See point 13

**- Additional information: Collect spilled polymer: It could cause falls (Danger of slipping).**

### \* 7 Handling and storage

**- Handling****- Information for safe handling:**

No special requirements necessary, if handled at room temperature.

Avoid spilling the product, as this might cause falls.

When bringing the material to processing temperatures gases might develop, forming:

propylene

ethylene

hydrocarbon substances with low molecular weight and their oxidation products

solvent residues

traces of formaldehyde and acrylaldehyde

traces of acids (Formic acid, acetic acid)

Provide appropriate ventilation for such processing conditions.

Experimental tests under different application conditions showed maximum limits of formaldehyde, acrylaldehyde, formic acid, and acetic acid being significantly below TLV-values.

Pay particular attention when handling the molten material. Fillers tend to keep the material in compact form, thus releasing heat slower than regular resin. The thermal decomposition of the polymer might take a prolonged period of time, releasing hazardous decomposition products.

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Do not exceed recommended working temperatures of coloured materials, as the colouring agents might develop decomposition products hazardous to health.

Take precautionary measures against explosion risks, as all types of polymers may develop dust during transporting or grinding of granules.

- **Storage**
- **Requirements to be met by storerooms and containers:**



*Do not smoke!*

Take precautionary measures to prevent the formation of static electricity.

Ground equipment electrically.

Electric safety equipment.

Open flames prohibited.

Store the product in bags, car silos, container, or large cartons.

- **Information about storage in one common storage facility:** Not required.

- **Further information about storage conditions:**

Protect from heat and direct sunlight.

Store container in a well ventilated position.

Store under dry conditions.

Do not stack up the octabins.

- **Specific applications:** For safe stacking follow the storage recommendations specific for this product.

### 8 Exposure controls and personal protection

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

- **Components with limit values that require monitoring at the workplace**

- **Additional exposure limit values for possible processing dangers:**

#### 107-02-8 acrylaldehyde

WEL	Short-term value: 0.7 mg/m <sup>3</sup> , 0.3 ppm
	Long-term value: 0.23 mg/m <sup>3</sup> , 0.1 ppm

#### 50-00-0 formaldehyde

WEL	Short-term value: 2.5 mg/m <sup>3</sup> , 2 ppm
	Long-term value: 2.5 mg/m <sup>3</sup> , 2 ppm

#### 64-18-6 formic acid

WEL	Long-term value: 9.6 mg/m <sup>3</sup> , 5 ppm
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- **Personal protective equipment**

- **General protective and hygienic measures:**

The usual precautionary measures should be adhered to general rules for handling chemicals.

- **Breathing equipment:** Not required.

- **Protection of hands:** Heat resistant gloves

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Not required.

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- **Body protection:** Normal overalls

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### 9 Physical and chemical properties:

#### - General Information

<b>Form:</b>	Granulate
<b>Colour:</b>	various colours
<b>Odour:</b>	Odourless

#### - Change in condition

**Melting point/Melting range:** 130-164°C  
**Boiling point/Boiling range:** Not determined

- **Flash point:** Not applicable (see attachment to guideline 92/69/EEC, A.9)

- **Ignition temperature:** > 400°C

- **Decomposition temperature:** > 300°C

- **Danger of explosion:** Product is not explosive.  
See point(s) 7.

- **Density:** 1.05-1.43 g/cm<sup>3</sup>

#### - Solubility in / Miscibility with

**Water:** Insoluble

- **Additional information:** The polymer component is soluble in boiling, aromatic chlorinated solvents.

### 10 Stability and reactivity

#### - Thermal decomposition / conditions to be avoided:

The product is stable at normal handling- and storage conditions.  
Decomposes over 300 °C.

- **Materials to be avoided:** Strong oxidation agent

- **Dangerous reactions:** No dangerous reactions known

- **Dangerous products of decomposition:** No hazardous decomposition products known at room temperature.

### 11 Toxicological information

#### - Acute toxicity

#### - Primary irritant effect:

- **on the skin:** No irritant effect.

- **on the eye:** No irritant effect.

- **Sensitization:** No sensitizing effect known.

#### - Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological information:

- **Information about elimination (persistence and degradability)**

- **Other information:** The product is not biodegradable.

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**- General notes:**

The product is not toxic, small particles can have physical effects on water and soil organisms.

**\* 13 Disposal considerations**

- **Product**
- **Recommendation:** Disposal on authorised waste dump.
- **European waste catalogue:** 070213
- **Unclean packaging**
- **Recommendation:** Disposal must be done according to official regulations.

**\* 14 Transport information**

- **Transport/Additional information:**  
According to national and international guidelines, which regulate the road-, rail-, air- and sea transport, this product is classified as not dangerous.

**\* 15 Regulatory information**

- **Designation according to EC guidelines:**  
The material is not subject to classification according to EC lists and other sources of literature known to us. Observe the normal safety regulations when handling chemicals.
- **National regulations**
- **Other regulations, limitations and prohibitive regulations:**  
Generally all national regulations regarding this product type apply.

**\* 16 Other information:**

The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty for specific product characteristics. Kunststoffwerk VOERDE takes no responsibility for inappropriate use, processing and handling by purchasers and users of the product.

- **Department issuing data specification sheet:**  
Labor und Entwicklung  
Kunststoffwerk VOERDE Hueck & Schade GmbH & Co. KG, Jacobstraße 13-17, 58256 Ennepetal, Germany
- **Contact:** Labor und Entwicklung
- **Bibliography:**
  - RTECS (Registry of toxic effects of chemical substances 1985-1986 edition)
  - Frostling, Hof, Jacobson, Pfaffli, Zitting, "Thermal decomposition products from plastics", 2-Polypropylene and polyvinyl chloride, 1983
  - EINECS/ELINCS
  - Directive EEC 67/548 and following adaptations
  - Directive 1999/45/EC, as amended  
1907/2006/EC
  - Directive 2001/58/EC
- **\* Data compared to the previous version altered:** REACH version