

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier**
- **Trade name:** Hifax SP 1114 BLACK
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the preparation:** Synthetic resin
- **Details of the supplier of the safety data sheet**
- **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

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008:**
The substance is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
- **Information concerning particular hazards for human and environment:**
The molten product adheres to the skin and causes burns.
Spilled material may present a slipping hazard.
Possible production of electrostatic charging when used.
The working steams can irritate the eyes as well as the respiratory tract.
- **Classification system:**
This product is, according to EEC directives 1999/45, 67/548, Regulation 1907/2006/EC and following amendments, not classified as hazardous.
- **Label elements**
- **Labelling according to Regulation (EC) No 1272/2008:** Void
- **Hazard pictograms:** Void
- **Signal word:** Void
- **Hazard statements:** Void
- **Other hazards**
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization:** Substances
- **CAS No. Designation:**
9010-79-1 1-propene, polymer with ethene
- **Description:** Copolymer containing mineral fillers

4 First aid measures

- **Description of 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).

(Contd. on page 2)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 1)

- **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 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.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed:** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
Water haze
Foam
Carbon dioxide
Chemical powder
- **For safety reasons unsuitable extinguishing agents:** None
- **Special hazards arising from the substance or mixture:**
In case of fire it can release:
water (H₂O), carbon dioxide (CO₂), and when lacking oxygen (O₂), 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).
- **Advice for firefighters**
- **Protective equipment:** Put on breathing apparatus.
- **Additional information:** Heat value: 8000 - 11000 kcal/kg

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures:**
No specific measures are necessary.
See point 8
- **Environmental precautions:**
No special measures required.
See points 12 and 13.
- **Methods and material for containment and cleaning up:**
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
- **Reference to other sections:** Collect spilled polymer: It could cause falls (Danger of slipping).

(Contd. on page 3)

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 2)

7 Handling and storage

- Handling

- Precautions 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.

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

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.

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

- Conditions for safe storage, including any incompatibilities

- 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 end use(s): For safe stacking follow the storage recommendations specific for this product.

8 Exposure controls/personal protection

- Control parameters

- Components with limit values that require monitoring at the workplace: Not required.

- Additional exposure limit values for possible processing dangers:

107-02-8 acrylaldehyde

WEL Short-term value: 0.7 mg/m³, 0.3 ppm

Long-term value: 0.23 mg/m³, 0.1 ppm

(Contd. on page 4)

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 3)

50-00-0 formaldehyde

WEL Short-term value: 2.5 mg/m³, 2 ppm
Long-term value: 2.5 mg/m³, 2 ppm

64-18-6 formic acid

WEL Long-term value: 9.6 mg/m³, 5 ppm

- **Additional information:** see point(s) 7, 9.

- **Exposure controls**

- **Personal protective equipment**

- **General protective and hygienic measures:**

Do not eat or drink while working.

No smoking.

Provide system for collecting the vapors which are created during the working process.

- **Breathing equipment:**

If appropriate ventilation is not available, use face mask when handling the molten product.

- **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:** Safety goggles recommended during refilling.

- **Body protection:** Normal overalls

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**
Form: Granulate

Colour: various colours

- **Odour:** 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** 0.89-0.98 g/cm³

- **Solubility in / Miscibility with**
Water: Insoluble

- **Other information** Soluble in boiling, aromatic chlorinated solvents.

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 4)

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
The product is stable when handled and stored under normal conditions.
Decomposes over 300 °C.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No special precautions necessary if used correctly.
- **Incompatible materials:** Strong oxidation agent
- **Hazardous decomposition products:** No hazardous decomposition products known at room temperature.

11 Toxicological information

- **Information on toxicological effects**
- **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

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Other information:** The product is not biodegradable.
- **Behaviour in environmental systems**
- **Bioaccumulative potential:**
Float on water.
There is no bioaccumulation.
- **Mobility in soil:** No further relevant information available.
- **Additional ecological information**
- **General notes:**
The product is not toxic, small particles can have physical effects on water and soil organisms.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Disposal through controlled incineration or authorised waste dump.
The material can be re-used or recycled according to the regulations of Guideline EG 94/62.
- **European waste catalogue:** 070213

(Contd. on page 6)

GB

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 5)

- **Unclean packaging**
- **Recommendation:** Disposal must be done according to official regulations.

14 Transport information

- UN-Number	
- ADR, ADN, IMDG, IATA	Void
- UN proper shipping name	
- ADR, ADN, IMDG, IATA	Void
- Transport hazard class(es)	
- ADR, ADN, IMDG, IATA	
- Class	Void
- Packing group	
- ADR, IMDG, IATA	Void
- Environmental hazards:	Not applicable.
- Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
- 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.
- UN "Model Regulation":	-

15 Regulatory information

- **Safety, health and environmental regulations / legislation specific for the substance or mixture**
- **National regulations**
- **Other regulations, limitations and prohibitive regulations:**
Generally all national regulations regarding this product type apply.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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
- **Contact:** Labor und Entwicklung
- **Bibliography:**
 - Directive EEC 67/548 and following adaptations
 - Directive 1999/45/EC, as amended 1907/2006/EC
 - Directive 2001/58/EC (repealed by (EC) 1907/2006)
 - 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

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 17.10.2013

Version 4

Revision: 01.01.2013

Trade name: Hifax SP 1114 BLACK

(Contd. of page 6)

- EINECS/ELINCS (REACH)

- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CAS: Chemical Abstracts Service (division of the American Chemical Society)

- * **Data compared to the previous version altered: REACH version**

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