

# Material Safety Data Sheet

according to 1907/2006/EC



Trade name : OK 2000  
Revision date : 13.02.2015  
Issuing date : 13.02.2015

Version : MSDS - OK 2100\_D

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

### **- 1.1 Product identifier**

**- 1.1.1 Product / Trade name:** OK 2000

**- 1.2.1 Relevant identified uses: e.g.** Machine construction, Plastic industries

**- 1.3 Manufacture / Supplier:** Ottensteiner Kunststoff GmbH & Co. KG  
Im Garbrock 39  
D-48683 Ahaus (Germany)  
Phone: +49 – (0) 2561 – 9824 – 0  
Fax: +49 – (0) 2561 – 9824 – 99

**- Technical information: (EP)** Tel. +49 – (0) 2561 – 9824 – 56 (8.00 – 16.30 Uhr)

**- MSDS:** e-Mail: MSDS@okulen.com

**- 1.4 Emergency call: BG Chemie** Phone: +49 – (0) 172 – 621 26 04 (Germany)

## **2. Hazards identification:**

### **- 2.1 Classification of the substance or mixture**

#### **- Classification according to Regulation 1272/2008/EC (CLP):**

Not a hazardous substance or preparation according to the above named Regulation.

#### **- Classification according to Regulation 67/548/ECC or 1999/45/EC:**

Not a hazardous substance or preparation according to the above named Regulation.

**- 2.2 Label elements:** Not required

### **- 2.3 Other hazards:**

The mixture does not meet the criteria for PBT / vPvB according to REACH, Annex XIII.

The molten product adheres to the skin and causes burns.

Spilled material may present a slipping hazard.

By moving superposed plates can cause static electricity. If necessary, measures should be taken against electrostatic discharges.

## **3. Composition / information on ingredients**

**- Chemical characterization:** PE

**- 3.1 Substances:** Polyethylene / Ethylene, basic polymer CAS-No. 9002-88-4

**- 3.2 Mixtures:** Polymer, can contain additives / pigments.

## **4. First aid measures**

### **- 4.1.1 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).

### **- 4.1.2 Following inhalation:**

In case of excessive inhalation of fumes move the person to fresh air. Call for medical help.

### **- 4.1.3 Following 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.

### **- 4.1.4 Following eye contact:**

Rinse opened eye for several minutes under running water.

### **- 4.1.5 Following ingestion:**

If swallowed do not induce vomiting - seek medical attention.

### **- 4.2 Most important symptoms and effects, both acute and delayed:**

Main symptoms: None known.

### **- 4.3 Indication of any immediate medical attention and special treatment needed:**

Treat symptomatically.

# Material Safety Data Sheet

according to 1907/2006/EC

**OKULEN®**

Trade name : OK 2000  
Revision date : 13.02.2015  
Issuing date : 13.02.2015

Version : MSDS - OK 2100\_D

## 5. Fire fighting measures

### - 5.1.1 Extinguishing media:

- 5.1.1 Suitable extinguishing medias: Water, Water haze, Foam, carbon dioxide, chemical powder (dry)

- 5.1.2 Unsuitable extinguishing agents: Sheets and Profiles: None  
Powder / fine chips: Water jet

### - 5.2 Special hazards caused by the material, its products of combustion or resulting gases:

In case of fire it can release: vapours / gases  
water (H<sub>2</sub>O), carbon dioxide (CO<sub>2</sub>), and when lacking oxygen (O<sub>2</sub>), carbon monoxide (CO)  
The combustion products are dangerous.

### - 5.3 Advice for fire-fighters:

Use a mask with universal filter.  
Use self-contained breathing apparatus within confined rooms.  
If it comes to skin burns caused by molten material, cool with cold water and let medical treatment.

### - 5.4 Additional information:

Even after a long extinguish time sheets and profiles can ignite again.  
Sheets and profiles after extinguishing for some time aftercooling with water!

## 6. Accidental release measures

### - 6.1 Personal precautions, protective equipment and emergency procedures:

Particular danger of slipping on rest pieces / chips.

### - 6.2 Environmental precautions:

No special precautions required.

### - 6.3 Measures for cleaning/collecting:

Recycle product or dispose properly.

### - 6.4 Reference to other sections:

Consult trained personal and look in chapter 8, 12 and 13.

## 7. Handling and storage

### - 7.1 Precautions for safe handling:

Wash hands before breaks and at the end of workday When using, do not eat, drink or smoke.



Take precautionary measures to prevent the formation of static electricity.



Remove chips and remaining pieces during processing. (Slippery).

Halogene, strong oxidizing agents, Aromatic solvents.

### - 7.2 Conditions for safe storage, including any incompatibilities:

German storage class (LGK) = "11" Flammable solids.  
Protect from heat and direct sunlight.

### - 7.3 Specific end use(s):

None known.

# Material Safety Data Sheet

according to 1907/2006/EC



Trade name : OK 2000

Revision date : 13.02.2015

Issuing date : 13.02.2015

Version : MSDS - OK 2100\_D

## **8. Exposure controls and personal protection**

### **- 8.1 Control parameters:**

#### **- 8.1.1 EC exposure limits:**

No exposure limit established.

#### **- 8.1.4 DNELs:**

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

#### **- 8.1.5 PNECs:**

This product is a mixture and therefore not directly subject of the registration requirements under REACH.

### **- 8.2 Exposure controls**

#### **- 8.2.1 Appropriate engineering controls:**

Occupational Safety and legal requirements to be considered on its own responsibility. Local or central suction of chips.

#### **- 8.2.2 Personal protective equipment:**

##### **- General protective and hygienic measures:**

Do not eat, drink or smoke while working.  
Wash hands before breaks and at the end of work.

##### **- 8.2.2.1 Eye protection:**

Safety glasses (EN 166) during machining.

##### **- 8.2.2.2 Skin protection:**

##### **- Protection of hands:**

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.

##### **- 8.2.2.3 Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

##### **- 8.2.3 Environmental exposure controls:**

##### **Environmental Precautions:**

Do not discharge into the drains/surface waters/groundwater  
Should not be released into the environment.

## **9. Physical and chemical properties:**

### **- 9.1. Information on basic physical and chemical propertiesGeneral Information:**

#### **- 9.1.1 Appearance**

##### **- Form:**

Solid

##### **- Colour:**

Different

##### **- Odour:**

Nearly odourless / odourless

#### **- 9.1.2 Safety relevant basic data:**

##### **- Density at 20°C:**

0,92 – 1,00 g/cm<sup>3</sup>

##### **- Melting point / Melting range:**

133 -138 °C

##### **- Boiling point / Boiling range:**

Not applicable

##### **- Flash point:**

Not applicable

##### **- Ignition temperature::**

> 330°C

##### **- Danger of explosion:**

Product is not explosive. See point(s) 7.

##### **- Solubility in Water:**

Insoluble

# Material Safety Data Sheet

according to 1907/2006/EC



Trade name : OK 2000  
Revision date : 13.02.2015  
Issuing date : 13.02.2015

Version : MSDS - OK 2100\_D

## **10. Stability and reactivity**

- **10.1 Reactivity:** The product is stable when handled and stored under normal conditions.
- **10.2 Chemical stability:** Thermal decomposition can take place above 330°C.
- **10.3 Possibility of hazardous reactions:** If used properly no hazardous reactions are expected.
- **10.4 Conditions to avoid:** Temperatures above the melting point, UV-radiation.
- **10.5 Incompatible Materials:** Halogens, strong oxidizing agents, aromatic solvents.
- **10.6 Hazardous decomposition products:** No hazardous decomposition products are known.

## **11. Toxicological information**

- **11.1. Information on toxicological effects:**  
When handled appropriately, even after long years of experience with this product, no adverse health effects are known. Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

## **12. Ecological information:**

- **12.7 Additional ecotoxicological information:**  
Ecotoxicological data are not available. Product is insoluble in water. According to experience, the material has no harmful effect on the environment.

## **13. Disposal considerations**

- **13.1 Waste treatment methods**
- **13.1.1 Product / Packaging disposal:**
- **Waste codes / waste designations according to EWC / AVV:**
  - 12 01 05 plastic parts / chips
  - 07 02 13 waste plastics (MFSU)
  - 17 02 03 plastics (Construction and Demolition Wastes)
  - 16 01 19 plastics (end-of-life vehicles / plastic wastes)
  - 02 01 04 waste plastics (wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing)
  - 20 01 39 plastics (separately collected fractions)
- **13.1.2 Waste treatment options:**
- **Cleaned product:** Reuse or recycle if possible. Disposal through controlled incineration or authorised waste dump.
- **13.1.3 Other disposal recommendations:**
- **Uncleaned product:** Disposal must be done according to official regulations.
- **13.2 Additional information:** Clarify the exact waste code with the disposer.

## **14. Transport information**

- **ADR/RID:** Not regulated
- **ADNR:** Not regulated
- **IMDG:** Not regulated
- **ICAO/IATA:** Not restricted

# Material Safety Data Sheet

according to 1907/2006/EC



Trade name : OK 2000  
Revision date : 13.02.2015  
Issuing date : 13.02.2015

Version : MSDS - OK 2100\_D

## **15. Regulatory information**

### **- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

- 15.1.1 EU regulations:** The product does not require a hazard warning label in accordance with EC directives / the relevant national laws.
- Water hazard class (WGK):** Not water endangering
- WGK Reg. no.:** 766
- WGK Source:** KBwS classification

### **- 15.1.2 National regulations:**

- 15.2 Chemical Safety Assessment:** Chemical Safety Assessment (CSA) is not required.

## **16. Other information:**

- 16.1 Indication of changes:** Changes against the previous version are marked by \*\*\*

### **- 16.2 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)

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

CLP = Classification, Labelling and Packaging

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)

ICAO = International Civil Aviation Organization

IMDG = International Maritime Code for Dangerous Goods

### **- 16.3 Key literature references and sources for the datasheet:**

Information contained in this safety data sheet is based on own data and public sources deemed valid or acceptable.

### **- 16.4 Classification for mixtures and used evaluation method according to regulation**

- (EC) 1207/2008 [CLP]:** Not a hazardous substance or preparation according to the named Regulation.

### **- 16.6 Training advice:**

Make sure that employees are aware of the hazards / risks as detailed on this Safety Data Sheet. When wearing a breathing apparatus, the need for appropriate training needs to be considered.

### **- 16.7 Further Informations:**

The information is based on the current information of our knowledge and experience. The safety data sheet is intended to give guidance for the safe handling of the product during storage, handling, transportation and disposal. The figures are not transferable to other products and have no quality assurance for specific product characteristics. Ottensteiner Kunststoff GmbH & Co. KG takes no responsibility for the behavior of traders and processors, which do not meet the above-mentioned information. This is especially true for improper or negligent handling, processing and use of the product.