

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

Print date: 21.07.2016

Revision No: 1,0

Revision date: 21.07.2016

Trade name: Worbla`s FlameRed Art

Article number: 7640550

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

#### 1.1. Product identifier

**Trade name: Worbla`s FlameRed Art****Article number: 7640550**

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

##### Use of the substance/mixture

Film manufacturing

##### Uses advised against

There is no information available on applications that are not advised.

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

##### Manufacturer/Supplier

Rhenoflex GmbH  
Giulinistrasse 2  
D-67065 Ludwigshafenwww.rhenoflex.com  
Tel: 0621 5709-03  
Fax: 0621 57096321

##### Responsible Department:

Contact MSDS: MSDS@Rhenoflex.com  
Product information: Info@Rhenoflex.com  
Responsible for the safety data sheet: GBK GmbH, Ingelheim**1.4. Emergency telephone number:** +49 621 / 5709-112

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

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

#### 2.2. Label elements

##### Additional advice on labelling

Labeling not applicable.

#### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Complex mixture based on: Polyolefin Copolymers, polyester, cellulose, contains: Flame retardant.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

No specific precautions required.

##### After inhalation

Inhalation is not considered a potential route of exposure.

##### After contact with skin

Wash with water and soap as a precaution.

In case of skin contact with molten product: Cool the affected area with plenty of cold water and cover with a clean cloth. Do not take off solidified product from skin.

##### After contact with eyes

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the event of persistent symptoms receive medical treatment.

##### After ingestion

Rinse out mouth and give plenty of water to drink. (500 ml). In the event of persistent symptoms receive medical treatment.

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

No acute and delayed symptoms and effects are observed.

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

No special measure necessary.

### SECTION 5: Firefighting measures

**5.1. Extinguishing media****Suitable extinguishing media**Foam, carbon dioxide (CO<sub>2</sub>), dry chemical, water-spray**5.2. Special hazards arising from the substance or mixture**

No decomposition if stored normally. No hazardous decomposition products known.

Only flame resistant (class DIN 4102-B1) at a distance of &gt; 40 mm to same or other plain materials.

Falling/dripping burning material..

Limit for smoke development is exceeded.

Fire may produce: Irritant/corrosive, flammable as well as toxic distillation gases/vapours. In case of fire and/or explosion do not breathe fumes.

**5.3. Advice for firefighters**

Use breathing apparatus with independent air supply.

### SECTION 6: Accidental release measures

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

Use personal protective clothing.

**6.2. Environmental precautions**

No specific precautions required.

**6.3. Methods and material for containment and cleaning up**

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients. No release of hazardous substances.

**6.4. Reference to other sections**

Information for personal protective equipment look up chapter 8.

Information for disposal see section 13.

### SECTION 7: Handling and storage

**7.1. Precautions for safe handling****Advice on safe handling**

No special precautions required.

**Advice on protection against fire and explosion**

Cool endangered areas with water spray.

Only flame resistant (class DIN 4102-B1) at a distance of &gt; 40 mm to same or other plain materials.

Falling/dripping burning material..

Limit for smoke development is exceeded.

**Further information on handling**

When using do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

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

No particular requirements.

**Advice on storage compatibility**

Not required.

**Further information on storage conditions**

Store in cool, dry place in tightly closed containers.

**7.3. Specific end use(s)**

Film manufacturing

### SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

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### 8.2. Exposure controls

#### Protective and hygiene measures

Take the usual precautions when handling with chemicals. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Avoid contact with skin, eyes and clothing.

#### Eye/face protection

Tightly fitting goggles (EN 166).

#### Hand protection

Chemical-resistant gloves (EN 374). Insulated gloves. When handling molten material. 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. Suitable materials also for extended, direct contact (recommended: protection index 6, corresponding to a permeation rate > 480 minutes according to EN 374): Butyl rubber, Fluorocarbon rubber, Nitrile rubber, Rubber, natural, Natural rubber, Neoprene rubber.

Follow the recommendations of the glove manufacturer for breakthrough properties especially for workplace conditions involving mechanical stress and contact duration.

#### Skin protection

Light protective clothing

#### Respiratory protection

Not required under normal use.

## SECTION 9: Physical and chemical properties

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

**Physical state:** 1,0 - 1,15 mm Film

**Colour:** Brown

**Odour:** Odourless

**pH-Value:** Not applicable.

#### Changes in the physical state

**Melting point:** 60 °C

**Initial boiling point and boiling range:** Not applicable.

**Sublimation point:** Not applicable.

**Softening point:** Not determined

**Flash point:** Not applicable.

**Lower explosion limits:** Not applicable.

**Upper explosion limits:** Not applicable.

**Vapour pressure:** Not applicable.

**Density:** Not determined

**Bulk density:** Not determined

**Water solubility:** insoluble

**Partition coefficient:** Not determined

**Ignition temperature:** Not determined

**Explosive properties** The product is not explosive.

**Decomposition temperature:**

**Viscosity / dynamic:** Not applicable.

**Viscosity / kinematic:** Not applicable.

**Oxidizing properties** Product itself does not burn.

**Solvent content:** 0,0 %

**Solid content:** 100 %

### 9.2. Other information

Only flame resistant (class DIN 4102-B1) at a distance of > 40 mm to same or other plain materials.

Falling/dripping burning material..

Limit for smoke development is exceeded.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No dangerous reaction known under conditions of normal use.

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**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Protect from moisture.

**10.5. Incompatible materials**

None

**10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

May decompose slowly if local heating up above 150°C.

Risk of formation of toxic pyrolysis products.

**Further information**

Only flame resistant (class DIN 4102-B1) at a distance of &gt; 40 mm to same or other plain materials.

Falling/dripping burning material..

Limit for smoke development is exceeded.

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

Health injuries are not known or expected under normal use.

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Further information**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

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

Based on the data available the classification criteria are not met.

**12.2. Persistence and degradability**

Not determined.

**12.3. Bioaccumulative potential**

Not determined.

**12.4. Mobility in soil**

Negligible

**12.5. Results of PBT and vPvB assessment**

Not applicable.

**12.6. Other adverse effects**

Not determined.

**Further information**

Do not flush into surface water or sanitary sewer system.

**SECTION 13: Disposal considerations**

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### 13.1. Waste treatment methods

#### Advice on disposal

Can be disposed of with domestic refuse, after conferring with the local waste disposal company and the corresponding authorities.

#### Waste disposal number of waste from residues/unused products

200139 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); plastics

#### Contaminated packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.  
Recommended cleaning agent: water with detergents.

## SECTION 14: Transport information

Land transport (ADR/RID); Marine transport (IMDG); Air transport (ICAO); Inland waterways transport (ADN):

### 14.1. UN number

Not applicable. No hazardous material as defined by the transport regulations.

### 14.2. UN proper shipping name

Not applicable. No hazardous material as defined by the transport regulations.

### 14.3. Transport hazard class(es)

Not applicable. No hazardous material as defined by the transport regulations.

### 14.4. Packing group

Not applicable. No hazardous material as defined by the transport regulations.

### 14.5. Environmental hazards

Not applicable. No hazardous material as defined by the transport regulations.

### 14.6. Special precautions for user

Not applicable. No hazardous material as defined by the transport regulations.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable. No hazardous material as defined by the transport regulations.

## SECTION 15: Regulatory information

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

#### EU regulatory information

#### Additional information

The product is labeled in accordance with Regulation (EC) no. 1272/2008 (GHS).

#### 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

### Changes

Contact MSDS: [MSDS@Rhenoflex.com](mailto:MSDS@Rhenoflex.com)

### Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

IMDG = International Maritime Code for Dangerous Goods

IATA/ICAO = International Air Transport Association / International Civil Aviation Organization

MARPOL = International Convention for the Prevention of Pollution from Ships

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

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GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals  
CAS = Chemical Abstract Service  
EN = European norm  
ISO = International Organization for Standardization  
DIN = Deutsche Industrie Norm  
PBT = Persistent Bioaccumulative and Toxic  
vPvB = Very Persistent and very Bio-accumulative  
LD = Lethal dose  
LC = Lethal concentration  
EC = Effect concentration  
IC = Median immobilisation concentration or median inhibitory concentration

### Further Information

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

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