

Material Safety Data Sheet 91/155/EWG

Section 1 – Name and Product

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Trade Name, Common Name or Specification: Overlay glass in form of frit, rods and cups, RW stands for Reichenbach colored glass	
Chemical Family Or Product Type: Inorganic Glass	Date: 19/05/2011

Section 2 – Composition

Chemical	%	Risk Codes	CAS #
SiO ₂	Silicon dioxide	40 - 70	14808-60-7
Na ₂ O	Sodium oxide	0 – 15	1313-59-3
PbO	Lead oxide	0 - 60	61-20,22-33, 50-53,62/T,N
K ₂ O	Potassium oxide	0 – 15	12136-45-7
As ₂ O ₃	Arsenic oxide	0 - 4	45,28,340-53/T+,N
CdO	Cadmium oxide	0 - 1	45,26,48/23/25,62,63,68,50/ 53/T+,N
Al ₂ O ₃	Aluminum oxide	0 - 3	1344-28-1
Ag	Silver	0 < 1	7440-22-4
SnO ₂	Tin oxide	0 < 1	18282-10-5
CuO	Copper oxide	0 - 1	1317-38-0
Sb ₂ O ₃	Diantimony trioxide	0 - 2	40/X _n
Se	Selenium	0 - 1	23/25,33,53/T
Li ₂ O	Lithium oxide	0 - 2	12057-24-8
CoO	Cobalt oxide	0 – 1,5	22-43,50-53/X _n ,N
CaO	Calcium oxide	0 – 3	1305-78-8
MnO ₂	Mangandioxid	0 - 5	20,22/X _n
MgO	Manganese dioxide	0 – 5	1309-48-4
Cr ₂ O ₃	Chromium oxide	0 – 3	1308-38-9
B ₂ O ₃	Boron oxide	0 - 4	1303-86-2
ZnO	Zinc oxid	0 – 2	50-53/N
Au	Gold	<1	7440-57-5

This product is not a dangerous material in sense of the dangerous material regulation. The chemicals, which were used for the production of this product, are in a glass matrix and therefore they will not transferred to the environment (air), if they are not heated up over 1200°C.

Section 3 – Possible Dangers

Danger Designation:

N/A

Special Danger References for Humans and Environment: This product is not a dangerous material in sense of the dangerous material regulation

Possible danger of cuts of the skin: Recommend gloves for protection from sharp edges

Possible danger of cuts of the eyes: Use industrial safety glasses

During the processing of the product, at temperatures starting from 1200°C, it can come to evaporations of individual chemical components. Take necessary preventive measures to prevent the inhalation.

Section 4 – Health Hazard Data

Cuts of the Skin: normal wound treatment

Eye Contact: Seek medical attention immediately

After Swallowing: Seek medical attention immediately, because of internal cuts

Section 5 – Fire and Explosion Hazard Data

Flash Point:

N/A

Flammable Limits:

N/A

Extinguishing Media:

N/A

Special Fire Fighting Procedures:

N/A

Explosion Potential:

Possibility of flying glass fragments, if hot glass comes in contact with water

Section 6 – Spill, Leak

Spill, Leak Procedure: No special precaution

Section 7 – Handling and Storage

No special requirements

Section 8 – Special Protection Information

Eye Protection: Use industrial safety glasses

Protective Gloves: Recommend gloves for protection from sharp edges

Section 9 – Physical and Chemical Data

Boiling Point: N/A	Melting Point: 570 – 610°C	Specific Gravity (Bulk): 1,5 – 2,5 g/cm ³
Vapour Pressure: N/A	Vapour Density: N/A	Evaporation Rate: N/A
Solubility in Water: N/A	Solubility in Alcohol: N/A	Solubility in other Solvents: hydrofluoric acid
COE: 9,4(+/-0,2)*10 ⁻⁶ /K (25-400°C)	Transformation Point: 490 - 520 °C	

Section 10 – Stability and Reactivity

This is a stable material. No decomposition by regulation-moderate using. Dangerous reactions are not well known.

Section 11 – Toxicology Data

Health endangerment:

In the case of regulation-moderate use so far no harmful effects were determined.

Section 12 – Ecology Data

Persistence and Degradable:

With appropriate application no disturbances are to be expected during the waste water purification.

Mobility:

This product is a not-water-soluble solid.

Ecology Generally:

No water-endangering material.

Section 13 – Disposal

Disposal Method:

Follow federal, state and local reg., Recycling

Section 14 - Transportation Regulations

No special requirements

Section 15 – Regulations

Water Endangerment Class: non

Restriction of Occupation: non

This product is not a dangerous material in sense of the dangerous material regulation.

Section 16 – General Data

This Material Safety Data Sheet is offered solely for your information, consideration and investigation. It provides no warranties, either expressed or implied and assumes no responsibility for the accuracy or completeness of the data contained herein. Existing laws and regulations are to be considered by the receiver of our products within own responsibility.