

Company/Responsible Person:

Hug Engineering AG
Im Geren 14
CH-8352 Rätterschen
Mr. Michael Hug
Tel. +41 (0)52 368 20 20 Fax +41 (0)52 368 20 10

1. Chemical Composition/Contents

	Name	CAS-Nr.	Content [%]
Support	Ceramic		
Coating	Titanium dioxide TiO ₂	13463-67-7	75
	Tungsten trioxide WO ₃	1314-35-8	8
	Vanadium pentoxide V ₂ O ₅	1314-62-1	1-3
	Palladium Pd	7440-05-3	0.03 - 0.05

Possible hazards

If usual occupational hygiene regulations are observed and inhalation of product dusts is avoided, handling of the product presents no significant risk.
The product does not constitute a fire or explosion risk.

2. First aid measures

General information:

⚠ Remove contaminated clothing.

On eye contact:

⚠ Open the lid wide, immediately wash thoroughly with water for 15 minutes and if necessary consult a doctor. Hand over this data sheet to the doctor.

On skin contact:

⚠ Remove contaminated clothing and thoroughly wash affected skin areas with soap and water.

When taken by mouth:

⚠ Wash out mouth with water and drink plenty of water.

On inhalation:

⚠ Move affected person to a fresh air zone. If breathing problems persist, consult a doctor.

Information for the doctor:

⚠ Treat according to symptoms (decontamination, vital functions), give chelating agents.

3. Fire fighting measures

Suitable extinguishing agents:

All extinguishing agents are suitable. Tailor the extinguishing agent to primary fire and environment.
Any unsuitable extinguishing agents are known.
Special hazard through product or its combustion products:
The product itself is non-flammable.

Special protective equipment or measures for fighting fires:

Personal protective equipment and extinguishing measures must be tailored to the primary fire.

4. Measures in the event of accidental release

Person-related precautions:

Wear protective clothing with breathing mask. Close outflows. Prevent product from eye-contact Do not inhale product dusts. Deposit product dusts by spraying water.

Environmental protection measures:

Do not release into sewerage system or surface water. Traces of product are sufficient to colour the water.

Procedure for cleaning/pick-up:

Spilt product should preferably be carefully picked up mechanically, deposited in marked, resistant containers and then be sent for recycling, avoiding dust formation. If necessary, clean floor with water.

5. Handling and storage

Handling:

Process product only in well ventilated work rooms. Avoid dust formation. If nevertheless dust is formed all surfaces have to be cleaned from. Eye wash bottles should be available on workplace. Comply with conditions of use.

Storage:

The product should not be exposed to moisture and weather influences. Only pallets with frame are stackable. During transfer, avoid dust formation. The product can be packed in commercial packaging materials like cardboard, paper, plastic.

6. Limitation of exposure and personal protective equipment

Design of industrial plants:

Ensure efficient extraction when processing the product.

Components with workplace limits:

When inhalable dusts occur:

Maximum workplace concentration (fine dust): 6 mg/m³

7. Occupat. hygiene and pers. protective equipment:

Comply with general industrial hygiene regulations of responsible employers' association. Avoid direct contact with product. Do not inhale production dusts. Store work clothing separately. Change soiled work clothing and thoroughly clean before reuse. Wash hands and/or face before breaks and after any operation.

Respiratory protection:

⚠ Breathing mask with particle filter P3* (for solid and liquid particles, large retentivity, DIN 3181)

* Comply with wearing time limit according to TRgA 415.

Eye protection:

⚠ Safety goggles closed at sides

Hand protection:

△ Protective rubber or plastic gloves

Body protection:

△ Work clothing

8. Physical and chemical properties**Appearance:**

Shape: Honeycomb
Colour: white to light green, light yellow
Odour: Odourless

Safety-relevant data:

Stacking density: approx. 700 kg/m³
water-Solubility: slightly soluble
pH: approx. 2.5

9. Stability and reactivity

The product is stable at room temperature
No known hazardous reactions of product with substances usually used under conditions of use. Being a noble metal compound, the product has a corrosive effect on aluminium or steel when in direct contact.

10. Toxicological data

For the handling of this product, no harmful effects are known. Harmful when inhaling the fine dust of this product.

11. Ecological data**Data on elimination:**

Slightly water-soluble, inorganic product. Can be largely mechanically separated in wastewater treatment plants.

Action in environmental compartments:

The product contains heavy metals V and W. Release into environment must be avoided. Special pre-treatment are required.

Ecotoxic effects:

LC(50)/Leuciscus idus: approx. 5,000 mg/l/48h

12. Information on disposal**Product:**

According to the relevant statutory regulations, the product should preferably be recycled. If recycling appears uneconomical, for example owing to a high level of contamination, the waste code depends primarily on the impurities contained. Information on reuse/recycling can be obtained from the dealer/manufacturer.

Contaminated packaging:

Contaminated empty containers should be treated in the same way as the ingredients.

13. Information on transport

This product is not subject of transport regulations for hazardous materials.

14. Regulations

According to actual regulation on hazardous substances and relevant EC Directives (67/548/EEC and 88/379/EEC) product is not a hazardous substance.

Labelling according to EC Directives:

S22 - Do not inhale dust

National regulations:

Water hazard class: 1 (Germany) (self-classification) (slightly hazardous to water)

Other countries: Follow the national regulations.

15. Other information

Document versions are indicated below on this document.

Any Information is based on the actual state of our knowledge and experience.

This document describes products according to safety requirements. It does not imply any assurance of properties. Any local law and regulations have to be followed.