DataEC Safety Data SheetSheetOxidation Catalysts OCT

hugengineering.

1. Substance/formulation name and company name

Trade name of the product:

Oxidation catalyst OCT miscellaneous Company/Information from: Hug Engineering AG Im Geren 14 CH-8352 Räterschen Mr Michael Hug Tel. +41 (0)52 368 20 20 Fax +41 (0)52 368 20 10

2. Composition/Data on ingredients

Chemical characterization:

Ceramic support coated with platinum and titanium dioxide (\mbox{TiO}_2)

Chemical composition:

	Name	CAS-Nr.	Inhalt
Support	Cordierit-ceramic		
Coating	Platinum	7440-06-4	200 - 1000 g/m ³
	Titanium dioxide	13463-67-7	10 - 15 kg/m ³
	TiO ₂		

3. Possible hazards

If the 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.

4. First aid measures

General information:

△ First aiders should be equipped with a breathing mask with particle filter.

On eye contact:

△ Open the lid wide and immediately wash out thoroughly with water for 15 minutes. Consult a doctor. Give the doctor this data sheet.

On skin contact:

 Δ Remove soiled clothing and thoroughly wash the affected skin areas with soap and water.

When taken by mouth:

 Δ Wash out the mouth with water.

On inhalation:

△ Bring the affected person from the danger zone into the fresh air. If breathing difficulty persists, consult a doctor.

Information for the doctor:

A No special measures are known. Treat according to symptoms.

Fire fighting measures

Suitable extinguishing agents:

5.

All extinguishing agents are suitable. Tailor the extinguishing agent to primary fire and the environment.

Extinguishing agents unsuitable for safety reasons: None known:

Special hazard through product or through its combustion products:

The product itself is non-flammable. Under the action of heat, corrosive vapours are formed.

Special protective equipment or measures for fighting fires: Personal protective equipment and extinguishing measures must be tailored to the primary fire.

6. Measures in the event of accidental release

Person-related precautions:

Wear protective clothing with breathing mask. Close outflows. Prevent the product from coming into contact with the eyes. Do not inhale product dusts. Deposit product dusts by spraying water.

Environmental protection measures:

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

Procedure for cleaning/pick-up:

Spilt product should preferably be carefully picked up mechanically and deposited in marked, resistant containers while avoiding dust formation and should then be sent for recycling to recover noble metal or should be disposed of. If necessary, clean the floor with water.

7. Handling and storage

Handling:

Process the product only in well ventilated work rooms. Avoid the formation of product dusts and the spread of these dusts in the atmosphere. Effectively extract any product dusts released directly at the place of disposal. Eye wash bottles should be available at the workplace. Comply with the conditions of use.

Storage:

The product should be stored away from moisture and from weather influences. Only pallets with a frame are stackable. During transfer, avoid dust formation. The product can be packed in commercial packaging materials. Suitable packaging materials: cardboard, paper, plastic.

8. 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 (titanium dioxide): 6 mg/m³ (measured as fine dust) Maximum workplace concentration (fine dust): 6 mg/m³

Occupational hygiene and personal protective equipment:

Comply with the general industrial hygiene regulations of the responsible employers' association. Avoid direct contact with the 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 at the end of work.

Respiratory protection:

Breathing mask with particle filter P1* (in the case of insufficient ventilation)

* Comply with wearing time limit according to TRgA 415.

Eye protection:

 Δ Safety goggles closed at sides

Hand protection:

 Δ Protective rubber or plastic gloves

Body protection:

 Δ Work clothing

9. Physical and chemical properties

Appearance:

Shape: Honeycomb Colour: On-spec: light grey to dark grey Odour: Odourless

Safety-relevant data:

Stacking density: Solubility in water: approx. 700 kg/m³ practically insoluble

10. Stability and reactivity

Hazardous decomposition products:

No decomposition with proper storage and handling.

Conditions to be avoided:

The product is stable at room temperature.

Substances to be avoided:

There are no known hazardous reactions of the product with the substances usually used under the conventional conditions of use. Being a noble metal compound, the product has a corrosive effect on aluminium or steel when in direct contact.

11. Toxicological data

The product has a slight irritant effect on the respiratory tract.

Platinum

Human: Elemental platinum (Pt metal) leads to no local

Stationary and mobile Gas Purification or systemic harmful effects, in particular to no sensitizing effect (literature).

Animal: There are no experimental results on the effect of metallic platinum on skin and mucous membrane (e.g. eye, respiratory tract)

Titanium dioxide (anhydrous):

LC (50)inh./rat: > 6.82 mg/l/4h LD (50)p.c./rat: > 10'000 mg/kg LD(50)p.o./rat: > 25'000 mg/kg

12. Ecological data

Data on elimination:

The product is scarcely soluble and readily settles out. The inert, inorganic product is not biode¬gradable. Water hazard class (titanium dioxide): WGK 0 (self classification).

Additional information:

Do not allow the product to enter the environment. Neutralize and clarify contaminated wastewater before releasing into the sewerage system. Traces of the product are sufficient to colour the water.

13. Information on disposal

Product:

According to the relevant statutory regulations, the product should be preferably 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.

14. Information on transport

This product is not subject to the regulations on the transport of hazardous materials.

15. Regulations

This product is not a hazardous substance in the meaning of the regulation on hazardous substances and the relevant EC Directives (67/548/EEC and 88/379/EEC) in their respective valid versions at the time of preparation of the data sheet. Other countries: Follow the national regulations.

16. Other information

Document versions are indicated at the bottom. Information is based on the present state of our knowledge and experience.

The Safety Data Sheet describes products with regard to safety requirements.

The information does not imply any assurance of properties. The recipient of our product is himself responsible for observing existing laws and regulations.

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