

Safety data sheet: VCT Shield

According to 1907/2006/EC, Article 31

Interior & Exterior

1. Product and Company Identification

VCT Shield

(Use: Raw material, for industrial use only)

Firma:

isi GmbH

Ilgner – Schleif – Innovationen GmbH

D-51598 Friesenhagen - Steeg

Telefon 0049/2294/993818 - 0

Telefax 0049/2294/993818-30

Further information obtainable from: mail@ilgner-schleif-innovationen.com

Information in case of emergency: Tel.: 0049/30/19240

2. Hazards Identification

Emergency overview

CAUTION:

MAY CAUSE EYE, SKIN AND RESPIRATORY TRACT IRRITATION.

INGESTION MAY CAUSE GASTRIC DISTURBANCES.

State of matter: liquid

Colour: white

Odour: faint odour

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute toxicity:

Ingestion may cause gastrointestinal disturbances. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Irritation / corrosion:

Irritation is possible when the product comes in contact with the skin, respiratory tract or the eyes. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Chronic toxicity:

Repeated dose toxicity: No adverse effects were observed after repeated inhalative exposure in animal

studies. The product has not been tested. The statement has been derived from products of a similar structure or composition.

Potential environmental effects

Aquatic toxicity:

There is a high probability that the product is not acutely harmful to aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Safety data sheet: **VCT Shield**

According to 1907/2006/EC, Article 31 *Interior & Exterior*

3. Composition / Information on Ingredients

CAS Number	Content (W/W)	Chemical name
7732-18-5	40.0 - 60.0 % 40.0 - 60.0 %	Water NJTS-50078-NCD

4. First-Aid Measures

General advice:

Remove contaminated clothing.

If inhaled:

Remove the affected individual into fresh air and keep the person calm. Assist in breathing if necessary. Immediate medical attention required.

If on skin:

Wash affected areas thoroughly with soap and water. If irritation develops, seek medical attention.

If in eyes:

Flush with copious amounts of water for at least 15 minutes. If irritation develops, seek medical attention.

If swallowed:

Immediately rinse mouth and then drink plenty of water, do not induce vomiting, seek medical attention. Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions.

5. Fire-Fighting Measures

Flash point:	> 300 °F	(Unspecified)
Lower explosion limit:		not applicable
Upper explosion limit:		not applicable
Self-ignition temperature:		not self-igniting

Suitable extinguishing media:

water spray, foam, dry powder

Hazards during fire-fighting:

No particular hazards known.

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations. Product itself is non-combustible; fire extinguishing method of surrounding areas must be considered.

Safety data sheet: VCT Shield

According to 1907/2006/EC, Article 31 *Interior & Exterior*

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Avoid contact with skin and eyes.

Environmental precautions:

Do not release untreated into natural waters.

Cleanup:

Spills should be contained, solidified, and placed in suitable containers for disposal.

Further information:

High risk of slipping due to leakage/spillage of product.

7. Handling and Storage

Handling

General advice:

Handle in accordance with good industrial hygiene and safety practice. No special measures necessary provided product is used correctly. Ensure adequate ventilation.

Storage

General advice:

Store protected against freezing.

8. Exposure Controls and Personal Protection

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator as needed. Wear respiratory protection if ventilation is inadequate.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

General safety and hygiene measures:

Hands and/or face should be washed before breaks and at the end of the shift. Avoid contact with skin and eyes.

Safety data sheet: **VCT Shield**

According to 1907/2006/EC, Article 31 *Interior & Exterior*

9. Physical and Chemical Properties

Form:	liquid		
Odour:	faint odour		
Colour:	white		
pH value:	7.5 - 9.0		(DIN ISO 976)
<i>Information on:</i>	<i>Water</i>		
Melting point:	0 °C		

<i>Information on:</i>	<i>Water</i>		
Boiling point:	100 °C		

<i>Information on:</i>	<i>Water</i>		
Vapour pressure:	23.4 hPa	(20 °C)	Literature data.

Density:	approx. 1.04 g/cm ³	(20 °C)	(ISO 2811-1)
Viscosity, dynamic:	700 - 1,500 mPa.s	(23 °C)	(DIN EN ISO 3219)
Solubility in water:		(15 °C)	partly soluble
Miscibility with water:	miscible		
Other Information:	Range of particle size: < 0,1 µm - 10 µm		

10. Stability and Reactivity

Conditions to avoid:

Avoid extreme heat.

Substances to avoid:

metal salts

Hazardous reactions:

The product is chemically stable.

Decomposition products:

Hazardous decomposition products: carbon dioxide, carbon monoxide, hydrocarbons

Thermal decomposition:

No decomposition if used correctly.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

not fire-propagating

Safety data sheet: VCT Shield

According to 1907/2006/EC, Article 31

Interior & Exterior

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50

Species: rat

Value: > 2,000 - 10,000 mg/kg

Irritation / corrosion

Skin:

Species: rabbit

Result: non-irritant

Method: OECD Guideline 404

Eye:

Species: rabbit

Result: non-irritant

Method: OECD Guideline 405

Other Information:

Based on our experience and the information available, no adverse health effects are expected if handled as recommended with suitable precautions for designated uses. The statement was derived from products of similar composition.

12. Ecological Information

Fish

Acute: OECD Guideline 203 static

Brachydanio rerio/LC50 (96 h): > 100 mg/l

Aquatic invertebrates

Acute:

OECD Guideline 202, part 1 static

Daphnia magna/EC50 (48 h): > 100 mg/l

Aquatic plants

Toxicity to aquatic plants:

OECD Guideline 201 green algae/EC50 (72 h): > 100 mg/l

Nominal concentration.

Microorganisms

Toxicity to microorganisms:

DIN EN ISO 8192-OECD 209-88/302/EEC,P. C activated sludge, domestic/EC20 (0.5 h): > 100 mg/l

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Safety data sheet: **VCT Shield**

According to 1907/2006/EC, Article 31

Interior & Exterior

Degradability / Persistence

Biological / Abiological Degradation

Test method: OECD 302B; ISO 9888; 88/302/EEC, part C
Method of analysis: DOC reduction
Degree of elimination: > 70 %
Evaluation: Easily eliminated from water.
The product can be virtually eliminated from water by abiotic processes e.g. adsorption onto activated sludge.

Bioaccumulation

Based on its structural properties, the polymer is not biologically available. Accumulation in organisms is not to be expected.

Other adverse effects:

Do not release untreated into natural waters. At the present state of knowledge, no negative ecological effects are expected.
Ecological data are determined by analogy.

13. Disposal considerations

Waste disposal of substance:

Incinerate or dispose of in a licensed facility. Do not discharge into drains/surface waters/groundwater.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT Not classified as a dangerous good under transport regulations

Sea transport

IMDG Not classified as a dangerous good under transport regulations

Air transport

IATA/ICAO Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status: Chemical TSCA, US released / listed
OSHA hazard category: **Not hazardous;**
EPCRA 311/312 (Hazard categories): **Not hazardous;**
State regulations: **State RTK CAS Number Chemical name**
NJ, PA, MA NJTS-50078-NCD

CA Prop. 65:

THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

Safety data sheet: VCT Shield

According to 1907/2006/EC, Article 31 *Interior & Exterior*

16. Other Information

HMIS III Rating

Health: 1 Flammability: 1 Physical hazard: 0

NFPA and HMIS use a numbering scale ranging from 0 to 4 to indicate the degree of hazard. A value of zero means that the substance possesses essentially no hazard; a rating of four indicates extreme danger. Although similar, the two rating systems are intended for different purposes, and use different criteria. The NFPA system was developed to provide an on-the-spot alert to the hazards of a material, and their severity, to emergency responders. The HMIS system was designed to communicate workplace hazard information to employees who handle hazardous chemicals.

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.