

VSC Set-Control

SECTION 1 – IDENTIFICATION

PRODUCT NAME: VSC Set Control

IDENTIFICATION NUMBER: KB0001

SUPPLIER/MANFACTURER: VANBERG SPECIALIZED COATINGS

10705 COTTONWOOD ST LENEXA, KS 66215-2032

EMERGENCY # 1-800-255-3924

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SECTION 2 – HAZARDS IDENTIFICATION

Classification of the Substance or Mixture:

Eye irritation, Category 2 H319: Causes serious eye irritation

Irritant R36: Irritating to eyes

Label Elements:



Signal Word: Warning

Hazard Statement: Causes serious eye irritation

Prevention: Wash skin thoroughly after handling. Wear protective gloves/eye protection/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Concentration
Citric acid anhydrous	77-92-9	100%

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

General Advice:

Get medical advice/attention if you feel unwell. Show this SDS sheet to the doctor in attendance.

Inhalation:

If breathed in, move person into fresh air.

Skin Contact:

Immediately flush skin with large amounts of water.

Eye Contact:

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids.

Ingestion:

Drink plenty of water. If swallowed, DO NOT induce vomiting.

Most Important symptoms/effects, acute and delayed:

Symptoms:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5 – FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water spray, dry powder, foam, carbon dioxide (co2).

Special hazards arising from the substance of mixture

Special hazards during fire-fighting

Do not use a solid water stream as it may scatter and spread fire. Hazardous decomposition products formed under fire conditions. Exposure to decomposition products may be a hazard to health.

Advice for firefighters

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary. Use personal protective equipment.

Further Information

Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. In the event of fire and/or explosion do not breathe fumes.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

Methods and materials for containment and cleaning up

Use mechanical handling equipment. Keep in suitable, closed containers for disposal. Clean contaminated surface thoroughly.

SECTION 7 – HANDLING & STORAGE

Precautions for safe handling

Avoid creating dust. Do not breathe dust. Avoid contact with skin and eyes.

Advice on protection against fire and explosion

Normal measures for preventative fire protection.

Dust explosion class

St1

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep in an area equipped with acid resistant flooring. Keep container tightly closed in a dry and well-ventilated place.

Further information on storage conditions

Do not store at temperatures above 30°C / 86°F.

Advice on common storage

Incompatible with strong bases and oxidizing agents.

Other Data

No decomposition if stored and applied as directed.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

PNEC: Water

Value: 440 mg/l PNEC: Fresh water sediment Value: 34,6 mg/kg

PNEC: Marine sediment

Value: 3,46 mg/kg

PNEC: Soil

Value: 33,1 mg/kg

Engineering measures

Provide adequate ventilation

Personal protective equipment

Respiratory Protection

In the case of dust or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143).

Hand Protection

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific place of work. For Special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. General hygiene practice. Do not breathe dust. Avoid contact with skin, eyes, and clothing.

Environmental exposure controls

General advice

Prevent further leakage or spillage if safe to do so. No special environmental precautions required.

SECTION 9 – PHYSICAL & CHEMICAL PROPERTIES

Appearance: Crystalline

Color: White Odor: Odorless Flash point: n/a

Flammability (solid, gas): Does not ignite Oxidizing properties: No oxidizing effect

Molecular Weight: 192,13 g/mol

pH: 1,8 at 5% 25°C

Melting point/rage: ca. 153°C Density: 1,665 g/cm3 at 20°C Water solubility: ca. 800 g/l at 20°C

SECTION 10 – STABILITY & REACTIVITY

Reactivity

No decomposition if stored and applied as directed.

Chemical stability

Stable under normal conditions.

Possibility of hazardous reactions

Hazardous reactions

None known.

Conditions to avoid

Avoid dust formation.

Incompatible materials

Materials to avoid

Strong bases. Oxidizing Agents

Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

Acute oral toxicity Citric acid anhydrous:

LD50 oral: 5,400, g/kg

Species: Mouse

Method: OECD Test Guideline 401

LD50 Oral: 11,700 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Acute dermal toxicity Citric acid anhydrous:

LD50 Dermal: >2,000 mg/kg

Species: Rat

Acute toxicity (other routes of administration)

Citric acid anhydrous:

LD50: 725 mg/kg Application route: i.p.

Species: Rat

LD50: 940 mg/kg Application route: i.p. Species: Mouse

Skin corrosion/irritation

Skin irritation

Citric acid anhydrous:

Species: Rabbit

Result: No skin irritation

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Eye irritation

Citric acid anhydrous:

Species: Rabbit

Result: Irritating to eyes.

Respiratory or skin sensitization

Sensitization

Citric acid anhydrous:

Maximization Test Species: Guinea pig

Result: Does not cause skin sensitization. Method: OECD Test Guideline 406

Germ cell mutagenicity

Assessment

Citric acid anhydrous:

In vito tests did not show mutagenic effects.

Carcinogenicity

Assessment

Citric acid anhydrous:

Did not show carcinogenic or teratogenic effects in animal experiments.

Reproductive toxicity

Assessment

Citric acid anhydrous:

No toxicity to reproduction.

Target Organ Systemic Toxicant - Repeated exposure

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish

Citric acid anhydrous:

LC50: 440 mg/l

Exposure time: 48 hrs.

Species: Leuciscusidus (golden orfa)

Static Test

Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates

Citric acid anhydrous:

LC50: 1,535 mg/l Exposure time: 24 hrs.

Species: Daphnia magna (Walter flear)

Static test

Toxicity to algae

Citric acid anhydrous:

425 mg/l

Exposure time: 168 hrs.

Species: Scenedesmus quadricauda (Green algae)

Static test

Toxicity to bacteria

Citric acid anhydrous:

>10,000 mg/l

Persistence and degradability

Biodegradability

Citric acid anhydrous:

97%

Testing period: 28 days

Method: OECD Test Guideline 301B

Readily biodegradable

100%

Testing period: 19 days

Method: OECD Test Gridline 301E

Readily biodegradable

Biochemical Oxygen Demand (BOD) Citric acid anhydrous: 526 mg/g

Chemical Oxygen Demand (COD) Citric acid anhydrous: 728 mg/g

Bioaccumulative potential

Citric acid anhydrous:

The product is miscible in water and readily biodegradable in both water and soil. Accumulation is not expected.

Mobility in soil

Results of PBT and vPvB assessment

Citric acid anhydrous:

This substance is not considered to be persistent, bioaccumlating nor toxic (PBT)

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste treatment methods

Product:

Where possible recycling is preferred to disposal or incineration. Can be landfilled or incinerated, when in compliance with local regulations. Waste codes should be assigned by the user based on the application for which the product was used. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific.

Contaminated packaging:

Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of as unused product.

SECTION 14 – TRANPORTATION INFORMATION

ADR

Not dangerous goods

DOT

Not a Hazardous Material

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

SECTION 15 – REGULATORY INFORMATION

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

Major Accident Hazard Legislation: 96/82/EC Update: 2003

Directive 96/82/EC does not apply

Notification Status

CERCLA: Not considered hazardous

SARA Title III: Not considered hazardous.

WHMIS: Class E

TSCA: On TSCA Inventory.

EINECS: On the inventory, or in compliance with the inventory. **AICS:** On the inventory, or in compliance with the inventory. **DSL:** All components of this product are on the Canadian DSL list. **ENCS:** On the inventory, or in compliance with the inventory. **KECI:** On the inventory, or in compliance with the inventory. **PICCS:** On the inventory, or in compliance with the inventory. **IECSC:** On the inventory, or in compliance with the inventory. **NZloC:** On the inventory, or in compliance with the inventory.

SECTION 16 – OTHER INFORMATION

HMIS ratings:

THIS THEMES.		
Health		1
Flammability		0
Reactivity		0

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

END OF SDS