

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SPECTRUM brushing glaze

Product Code 1162

Revision date: 01 01 2025

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

SPECTRUM brushing glaze

This safety data sheet pertains to the following products:

1162 Texture Burgundy

1.2 Relevant identified uses of the substance or mixture and uses advised against

Glaze coating of ceramic products.

1.3 Details of the supplier of the safety data sheet

Spectrum Glazes Inc.

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Canada

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1.4 Emergency telephone number

Telephone: +1 (905) 695-9355

Only available during office hours.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Acute toxicity, Oral (Category 4),	H302
Acute toxicity, Inhalation (Category 4),	H332
Serious eye damage (Category 1),	H318
Germ cell mutagenicity (Category 2),	H341
Reproductive toxicity (Category 2),	H361d
Specific target organ toxicity - single exposure (Category 3), Respiratory system,	H335
Specific target organ toxicity - repeated exposure (Category 1),	H372
Chronic aquatic toxicity (Category 1),	H410

Classification according to EU Directives 67/548/EEC or 1999/45/EC

	R63
	R68
T Toxic	R48/23
Xn Harmful	R20/22
Xi Irritant	R37
Xi Irritant	R41
N Dangerous for the environment	R51/53

SPECTRUM GLAZES

EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

2.2 Label elements

Labelling according to EC regulation 1272/2008 (CLP)

This product is classified and labelled according to the CLP regulation.

Hazard Pictogram



Signal Word: Danger

Hazard Statements

H302 + H332 Harmful if swallowed or if inhaled
H318 Causes serious eye damage.
H335 May cause respiratory irritation.
H341 Suspected of causing genetic defects.
H361d Suspected of damaging the unborn child.
H372 Causes damage to organs through prolonged or repeated exposure.
H410 Toxic to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P273 Avoid release to the environment.
P280 Wear eye protection/ face protection.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition / information on ingredients

3.1 Substances

Hazardous ingredients according to Regulation (EC) No 1272/2008

EcNo.	Chemical Name	CAS No.	Index No.	Percentage Composition
215-239-8	Vanadium Pentoxide Acute Toxicity 4: H302 + H332 Eye Damage 1: H318 Respiratory Irritation : H335 Genetic Defects: H341 Reproductive Damage: H361d Aquatic Chronic 1: H410	1314-62-1		<2.5%

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Hazardous ingredients according to Directive 1999/45/EC

EcNo.	Chemical Name	CAS No.	Index No.	Percentage Composition
215-239-8	Vanadium Pentoxide N: Dangerous for the environment T: Toxic R20/22: Harmful by inhalation and if swallowed. R37: Irritating to respiratory system. R41: Risk of serious damage to eyes. R48/23: Toxic: danger of serious damage to health by prolonged exposure through inhalation. R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R63: Possible risk of harm to the unborn child. R68: Possible risk of irreversible effects. Repr.Cat.3: Toxic to Reproduction Category 3	1314-62-1		<2.5%

3.2 Mixtures

Chemical characterization: Water based mixture of frits (silicate glasses), minerals, metal oxides, clays and suspenders.

SECTION 4: First aid measures

4.1 Description of first aid measures

Consult a physician. Show this safety data sheet to the doctor in attendance.

After inhalation: Move affected person to fresh air. If not breathing, give artificial respiration. Consult a physician.

After skin contact: Wash off immediately with plenty of soap and water. Consult a physician.

After eye contact: Wash out eyes immediately for several minutes with plenty of clean water. Consult a physician.

After ingestion: Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2).

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Product is non-combustible. Extinguishing materials should therefore be selected according to the surrounding fire.

5.2 Special hazards arising from the substance or mixture

Vanadium/vanadium oxides

5.3 Advice for firefighters

Special protective equipment for firefighters: Wear a self-contained breathing apparatus.

Additional information: Hazchem-Code: Do not allow extinguishing media to penetrate into surface or ground water.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
For personal protection see section 8.

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3 Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Vanadium Pentoxide	1314-62-1	TWA	0.05 mg/m ³	UK EH40 WEL -Workplace Exposure Limits

Remarks Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

8.2 Exposure controls

Occupational exposure controls

When using this product, a well-functioning exhaust ventilation of the furnace gases and ample ventilation of the workrooms are recommended.

Protective and hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. Do not eat, drink or smoke when using this product.

Respiratory protection

Where sufficient ventilation is not available, avoid breathing dust by wearing a P1 or P2 particulate filter respirator. Final choice of appropriate breathing protection is dependent upon actual airborne concentrations

Protection of hands

As a precautionary measure, it is advisable to wear gloves made of an impervious material such as nitrile rubber. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Protection of eyes

As a precautionary measure, it is advisable to wear suitable safety glasses with side-shields, goggles, or a full-face shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Environmental exposure controls

Avoid release to the environment. Clean/scoop up spills immediately and place in a suitable container for disposal.

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state: Liquid

Colour: Various colours

Odour: Almost odourless

Odour threshold: no data available

pH value: 8-10

Melting point/melting range: no data available

Boiling temperature/boiling range: no data available

Flash point/flash point range: no data available

Vapourisation rate: no data available

Flammability: no data available

Explosive properties: no data available

Explosion limits: no data available

Vapour pressure: no data available

Vapour density: no data available

Density: no data available

Water solubility: dispersible

Partition coefficient n-octanol/water: no data available

Autoflammability: no data available

Thermal decomposition: no data available

Viscosity, dynamic: no data available

Explosive properties: no data available

Oxidizing characteristics: no data available

9.2 Other information

Additional information: no data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reactions are known.

10.2 Chemical stability

Product is stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reactions are known.

10.4 Conditions to avoid

Avoid extremes of temperature and dusty conditions.

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Thermal decomposition: No data available

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

LC50 Inhalation - Rat - female - 4 h - 2.21 mg/l

(OECD Test Guideline 403)

LC50 Dermal - Rat - > 2,500 mg/kg

(OECD Test Guideline 402)

Skin corrosion/irritation

Skin - in vitro assay

Result: No skin irritation

Serious eye damage/eye irritation

Eyes - Rabbit

Result: Risk of serious damage to eyes.

(OECD Test Guideline 405)

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

Laboratory experiments have shown mutagenic effects.

In vitro tests showed mutagenic effects

Carcinogenicity

No data available

IARC: 2B - Group 2B: Possibly carcinogenic to humans (Vanadium pentoxide)

Reproductive toxicity

Possible risk of congenital malformation in the fetus.

Suspected human reproductive toxicant

Specific target organ toxicity - single exposure

May cause respiratory irritation.

Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish

LC50 - Oncorhynchus mykiss (rainbow trout) - 5.2 mg/l - 96.0 h

Toxicity to daphnia and
other aquatic invertebrates

LC50 - Daphnia magna (Water flea) - 1.52 mg/l - 48 h

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

SPECTRUM GLAZES EU SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR/RID: 2862

IMDG: 2862

IATA: 2862

14.2 UN proper shipping name

ADR/RID: VANADIUM PENTOXIDE

IMDG: VANADIUM PENTOXIDE

IATA: Vanadium pentoxide

14.3 Transport hazard class(es)

ADR/RID: 6.1

IMDG: 6.1

IATA: 6.1

14.4 Packaging group

ADR/RID: III

IMDG: III

IATA: III

14.5 Environmental hazards

ADR/RID: yes

IMDG Marine pollutant: yes

IATA: no

14.6 Special precautions for user

No data available

SECTION 15: Regulatory information

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

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of issuance.

The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific materials designated and may not be valid for such materials used in combination with any other materials or in any process, unless specified in the text.