

Safety Data Sheet
according to 1907/2006/EC, Article 31

Printing date 03.11.2007

Revision: 03.11.2007

1 Identification of the substance/preparation and of the company/undertaking

· **Product details**

· **Trade name:** VERT N°1
VI-17

· **Article number:** VI-17

· **Application of the substance / the preparation**
Preparation
for glass application

· **Manufacturer/Supplier:**

SARL d'exploitation des ateliers Debitus
24 rue de la Bourde 37000 Tours
Tél : 02.47.37.99.80
Fax : 02.47.39.67.34
<http://www.debitus.com>
e-mail : vitrail@debitus.com

· **Further information obtainable from:** Laboratory

· **Information in case of emergency:** NHS Direct: 0845 46 47 / Fax: 0845 606 46 47

2 Hazards identification

· **Hazard description:**



T Toxic

N Dangerous for the environment

· **Information concerning particular hazards for human and environment:**

The product has to be labelled in the latest valid version according to the calculation procedure of the "General Classification guideline for preparations of the EU".

R 49 May cause cancer by inhalation.

R 45 May cause cancer.

R 46 May cause heritable genetic damage.

R 61 May cause harm to the unborn child.

R 62 Possible risk of impaired fertility.

R 21/22 Harmful in contact with skin and if swallowed.

R 23 Toxic by inhalation.

R 33 Danger of cumulative effects.

R 36/37/38 Irritating to eyes, respiratory system and skin.

R 42/43 May cause sensitisation by inhalation and skin contact.

R 48 Danger of serious damage to health by prolonged exposure.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children

Warning! Contains lead.

· **Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

GB

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3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture: consisting of the following components.

· **Dangerous components:**

CAS: 10099-76-0	Métasilicate de plomb Carc. Cat. 1; T; R 61-62-20/22-33-40-48	50-100%
CAS: 1309-60-0 EINECS: 215-174-5	lead dioxide Repr. Cat. 1, 3; T, N; R 61-62-20/22-33-50/53	2.5-10%
CAS: 1308-06-1 EINECS: 215-157-2	tricobalt tetraoxide T, Xi; R 49-43	2.5-10%
CAS: 1333-82-0 EINECS: 215-607-8	chromium (VI) trioxide Carc. Cat. 1, Muta. Cat. 2, Repr. Cat. 3; T+, C, O, N; R 45-46-9-24/25-26-35-42/43-48/23-62-50/53	2.5-10%

- **Additional information:** For the wording of the listed risk phrases, refer to section 16.

4 First aid measures

- **General information:**
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After excessive inhalation:**
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness place patient in a stable laying down side position for transportation.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Call for a doctor immediately.

5 Fire-fighting measures

- **Suitable extinguishing agents:**
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards caused by the substance, its products of combustion or resulting gases:**
Formation of toxic gases is possible during heating or in case of fire.
do not inhale steam of combustion
- **Protective equipment:** Mouth respiratory protective device.

6 Accidental release measures

- **Person-related safety precautions:** Not required.
- **Measures for environmental protection:**
Inform respective authorities in case of seepage into water course or sewage system.
Do not allow to enter sewers/ surface or ground water.
- **Measures for cleaning/collecting:**
Dispose contaminated material as waste according to item 13.

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Ensure adequate ventilation.

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7 Handling and storage

- **Handling:**
- **Information for safe handling:**
Thorough dedusting.
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of dust.
- **Information about fire - and explosion protection:** Keep respiratory protective device available.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.

8 Exposure control/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **Ingredients with limit values that require monitoring at the workplace:**

1308-06-1 tricobalt tetraoxide

WEL (Great Britain)	Long-term value: 0.1 mg/m ³ as Co; Carc
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1333-82-0 chromium (VI) trioxide

WEL (Great Britain)	Long-term value: 0.05 mg/m ³ as Cr; Carc, Sen
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- **Additional information:** The lists valid during the making were used as basis for this document.

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Keep away from food, beverages and petfood.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Store protective clothing separately.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

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· **Gloves material**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which may vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked before use.

· **Eye protection:** Not required.

9 Physical and chemical properties

· **General Information**

Form:	Crystalline powder
Colour:	According to product specification
Odour:	Characteristic

· **Change in condition**

Melting point/Melting range: 632°C
Boiling point/Boiling range: 1470°C

· **Flash point:** Not applicable.

· **Ignition temperature:** 370°C

· **Self-igniting:** Product is not self igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Density at 20°C:** 9.6 g/cm³

· **Solubility in / Miscibility with water:** Insoluble.

· **pH-value at 20°C:** 7-8

10 Stability and reactivity

· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Dangerous reactions** No dangerous reactions known.

· **Dangerous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Acute toxicity:**

· **LD/LC50 values relevant for classification:**

1333-82-0 chromium (VI) trioxide

Oral	LD50	80 mg/kg (rat)
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· **Primary irritant effect:**

· **on the skin:** No irritant effect.

· **on the eye:** No irritating effect.

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- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
- **Sensitisation** May cause sensitisation by inhalation and skin contact.

12 Ecological information

- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **General notes:**
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

13 Disposal considerations

- **Product:**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- **Land transport ADR/RID (cross-border) :**



- **ADR/RID class:** 6.1 (T5) Toxic substances.
- **Danger code (Kemler):** 60
- **UN-Number:** 3288
- **Packaging group:** III
- **Hazard label:** 6.1
- **Description of goods:** 3288 TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb)
- **Limited quantities (LQ) LQ9**
- **Transport category** 2

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· **Tunnel restriction code E**

· **Maritime transport IMDG:**



- **IMDG Class:** 6.1
- **UN Number:** 3288
- **Label** 6.1
- **Packaging group:** III
- **EMS Number:** F-A,S-A
- **Marine pollutant:** No
- **Proper shipping name:** TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb)

· **Air transport ICAO-TI and IATA-DGR:**



- **ICAO/IATA Class:** 6.1
- **UN/ID Number:** 3288
- **Label** 6.1
- **Packaging group:** III
- **Proper shipping name:** TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb)

15 Regulatory information

· **Labelling according to EU guidelines:**

The product has been marked in accordance with EU Directives / respective national laws.
2004/73/CE ; 2006/8/CE

· **Code letter and hazard designation of product:**



T Toxic
N Dangerous for the environment

· **Hazard-determining components for labelling:**

chromium (VI) trioxide
Métasilicate de plomb
tricobalt tetraoxide
lead dioxide

· **Risk phrases:**

49 May cause cancer by inhalation.
45 May cause cancer.

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- 46 *May cause heritable genetic damage.*
- 61 *May cause harm to the unborn child.*
- 62 *Possible risk of impaired fertility.*
- 21/22 *Harmful in contact with skin and if swallowed.*
- 23 *Toxic by inhalation.*
- 33 *Danger of cumulative effects.*
- 36/37/38 *Irritating to eyes, respiratory system and skin.*
- 42/43 *May cause sensitisation by inhalation and skin contact.*
- 48 *Danger of serious damage to health by prolonged exposure.*
- 51/53 *Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

· Safety phrases:

- 53 *Avoid exposure - obtain special instructions before use.*
- 1/2 *Keep locked up and out of the reach of children.*
- 22 *Do not breathe dust.*
- 36/37 *Wear suitable protective clothing and gloves.*
- 45 *In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).*
- 56 *Dispose of this material and its container to hazardous or special waste collection point.*
- 63 *In case of accident by inhalation: remove casualty to fresh air and keep at rest.*

· Special labelling of certain preparations:

Contains lead. Should not be used on surfaces liable to be chewed or sucked by children
Warning! Contains lead.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant R-phrases

- 20/22 *Harmful by inhalation and if swallowed.*
- 24/25 *Toxic in contact with skin and if swallowed.*
- 26 *Very toxic by inhalation.*
- 33 *Danger of cumulative effects.*
- 35 *Causes severe burns.*
- 40 *Limited evidence of a carcinogenic effect.*
- 42/43 *May cause sensitisation by inhalation and skin contact.*
- 43 *May cause sensitisation by skin contact.*
- 45 *May cause cancer.*
- 46 *May cause heritable genetic damage.*
- 48 *Danger of serious damage to health by prolonged exposure.*
- 48/23 *Toxic: danger of serious damage to health by prolonged exposure through inhalation.*
- 49 *May cause cancer by inhalation.*
- 50/53 *Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*
- 61 *May cause harm to the unborn child.*
- 62 *Possible risk of impaired fertility.*
- 9 *Explosive when mixed with combustible material.*