

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 20.10.2014

Version number 2

Revision: 20.10.2014

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

· **1.1 Product identifier**

· **Trade name:** VERT N°1  
VI-17

· **Article number / formula:** VI-17

· **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.

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

· **1.3 Details of the supplier of the safety data sheet**

· **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

· **1.4 Emergency telephone number:**

ORFILA (France) - Tel : +33 (0)1 45 42 59 59 (24h)  
Ireland - Tel : 00 353 1 8092568 - 00 353 1 8379964 (24h/24)  
UE Tel : 112

**SECTION 2: Hazards identification**

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008 :**



GHS06

Acute Tox. 3      H331      Toxic if inhaled.



GHS08

Resp. Sens. 1      H334      May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
Muta. 1B      H340      May cause genetic defects.  
Carc. 1A      H350      May cause cancer.  
Repr. 1A      H360Df      May damage the unborn child. Suspected of damaging fertility.  
STOT RE 2      H373      May cause damage to organs through prolonged or repeated exposure.



GHS05

Eye Dam. 1      H318      Causes serious eye damage.



GHS09

Aquatic Chronic 2 H411      Toxic to aquatic life with long lasting effects.

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GHS07

Acute Tox. 4	H302	Harmful if swallowed.
Skin Irrit. 2	H315	Causes skin irritation.
Skin Sens. 1	H317	May cause an allergic skin reaction.
STOT SE 3	H335-H336	May cause respiratory irritation. May cause drowsiness or dizziness.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC :**



T; Toxic

R49-45-46-61-23: May cause cancer by inhalation. May cause cancer. May cause heritable genetic damage. May cause harm to the unborn child. Toxic by inhalation.



Xn; Harmful

R62-21/22-48/20: Possible risk of impaired fertility. Harmful in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation.



Xn; Sensitising

R42/43: May cause sensitisation by inhalation and skin contact.



Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.



N; Dangerous for the environment

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R33: Danger of cumulative effects.

· **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".

· **Classification system:**

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

· **2.2 Label elements**

· **Labelling according to Regulation (EC) No 1272/2008**

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

· **Hazard pictograms**



GHS05 GHS06 GHS08 GHS09

· **Signal word Danger**

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

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

· **Hazard statements**

*H302 Harmful if swallowed.  
H331 Toxic if inhaled.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H317 May cause an allergic skin reaction.  
H340 May cause genetic defects.  
H350 May cause cancer.  
H360Df May damage the unborn child. Suspected of damaging fertility.  
H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.*

· **Precautionary statements**

*P102 Keep out of reach of children.  
P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P284 [In case of inadequate ventilation] wear respiratory protection.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P301+P310 IF SWALLOWED: Immediately call a doctor.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P314 Get medical advice/attention if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P391 Collect spillage.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*

· **Additional information:**

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

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.  
· **vPvB:** Not applicable.

**SECTION 3: Composition/information on ingredients**

· **3.2 Chemical characterisation: Mixtures**

· **Description:** Mixture: consisting of the following components.

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**· Dangerous components:**

CAS: 10099-76-0	Métasilicate de plomb  	50-100%
CAS: 1309-60-0 EINECS: 215-174-5 Index number: 082-001-00-6 RTECS: OG 0700000	lead dioxide  	2.5-10%
CAS: 1308-06-1 EINECS: 215-157-2	tricobalt tetraoxide  	2.5-10%
CAS: 1333-82-0 EINECS: 215-607-8 Index number: 024-001-00-0 RTECS: GB 6650000	chromium (VI) trioxide  	2.5-10%

**· SVHC**

1333-82-0 chromium (VI) trioxide

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

**SECTION 4: First aid measures**

**· 4.1 Description of 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.

**· 4.2 Most important symptoms and effects, both acute and delayed :**

No further relevant information available.

**· 4.3 Indication of any immediate medical attention and special treatment needed :**

No further relevant information available.

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**SECTION 5: Firefighting measures**

- **5.1 Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture :**  
Formation of toxic gases is possible during heating or in case of fire.  
do not inhale steam of combustion
- **5.3 Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

**SECTION 6: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures :** Not required.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **6.4 Reference to other sections :**  
See Section 7 for information on safe handling.  
See Section 13 for disposal information.

**SECTION 7: Handling and storage**

- **7.1 Precautions 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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **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.
- **7.3 Specific end use(s) :** No further relevant information available.

**SECTION 8: Exposure controls/personal protection**

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

**8.1 Control parameters**

- **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 <sup>3</sup> as Co; Carc
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**1333-82-0 chromium (VI) trioxide**

WEL (Great Britain) Long-term value: 0.05 mg/m<sup>3</sup>  
as Cr; Carc, Sen

· **Additional information:**

As a basis for the production of this document, the most current valid lists were used.

· **8.2 Exposure controls**

· **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

· **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:**



Tightly sealed goggles

**SECTION 9: Physical and chemical properties**

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

**Form:** Crystalline powder

**Colour:** According to product specification

· **Odour:** Characteristic

· **pH-value at 20 °C:** 7-8

· **Change in condition**

**Melting point/Melting range:** 632 °C

**Boiling point/Boiling range:** 1470 °C

· **Flash point:** Not applicable.

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- |  |   |
|--|---|
| · <b>Ignition temperature:</b>                   | 370 °C  |
| · <b>Self-igniting:</b>                          | Product is not self igniting.                 |
| · <b>Danger of explosion:</b>                    | Product does not present an explosion hazard. |
| · <b>Density at 20 °C:</b>                       | 9.6 g/cm <sup>3</sup>                         |
| · <b>Solubility in / Miscibility with water:</b> | Insoluble.                                    |
| · <b>9.2 Other information :</b>                 | No further relevant information available.    |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions :** No dangerous reactions known.
- **10.4 Conditions to avoid :** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

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

**1333-82-0 chromium (VI) trioxide**

Oral LD50 80 mg/kg (rat)

- **Primary irritant effect:**
- **On the skin:** No irritant effect.
- **On the eyes:** No irritant effect.
- **Sensitisation:** No sensitising 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
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
Muta. 1B, Carc. 1A, Repr. 1A

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability :** No further relevant information available.
- **12.3 Bioaccumulative potential :** No further relevant information available.
- **12.4 Mobility in soil :** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish

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- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water



Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.  
Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects :** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **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.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN3288

- **14.2 UN proper shipping name**
- **ADR** 3288 TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb), ENVIRONMENTALLY HAZARDOUS
- **IMDG** TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb), MARINE POLLUTANT
- **IATA** TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Métasilicate de plomb)

- **14.3 Transport hazard class(es)**
- **ADR**



- **Class** 6.1 (T5) Toxic substances.

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· **Label** 6.1

· **IMDG**



· **Class** 6.1 Toxic substances.

· **Label** 6.1

· **IATA**



· **Class** 6.1 Toxic substances.

· **Label** 6.1

· **14.4 Packing group**

· **ADR, IMDG, IATA** III

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances: lead dioxide, chromium (VI) trioxide

· **Marine pollutant:** No  
Symbol (fish and tree)

· **Special marking (ADR):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Toxic substances.

· **Danger code (Kemler):** 60

· **EMS Number:** F-A,S-A

· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **ADR**

· **Limited quantities (LQ)** 5 kg

· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **Transport category** 2

· **Tunnel restriction code** E

· **IMDG**

· **Limited quantities (LQ)** 5 kg

· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging: 1000 g

· **UN "Model Regulation":** UN3288, TOXIC SOLID, INORGANIC, N.O.S. (CHROMIUM TRIOXIDE, ANHYDROUS, Méta silicate de plomb), ENVIRONMENTALLY HAZARDOUS, 6.1, III

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**SECTION 15: Regulatory information**

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

· **National regulations:**

· **Other regulations, limitations and prohibitive regulations**

· **Substances of very high concern (SVHC) according to REACH, Article 57**

1333-82-0	chromium (VI) trioxide
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· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 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 phrases**

H271 May cause fire or explosion; strong oxidiser.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H330 Fatal if inhaled.

H332 Harmful if inhaled.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H340 May cause genetic defects.

H350 May cause cancer.

H351 Suspected of causing cancer.

H360 May damage fertility or the unborn child.

H360Df May damage the unborn child. Suspected of damaging fertility.

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

R20/22 Harmful by inhalation and if swallowed.

R24/25 Toxic in contact with skin and if swallowed.

R26 Very toxic by inhalation.

R33 Danger of cumulative effects.

R35 Causes severe burns.

R40 Limited evidence of a carcinogenic effect.

R42/43 May cause sensitisation by inhalation and skin contact.

R43 May cause sensitisation by skin contact.

R45 May cause cancer.

R46 May cause heritable genetic damage.

R48 Danger of serious damage to health by prolonged exposure.

R48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.

R49 May cause cancer by inhalation.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R61 May cause harm to the unborn child.

R62 Possible risk of impaired fertility.

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R9 Explosive when mixed with combustible material.

**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Ox. Sol. 1: Oxidising Solids, Hazard Category 1

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Acute Tox. 2: Acute toxicity, Hazard Category 2

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Resp. Sens. 1: Sensitisation - Respirat., Hazard Category 1

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Muta. 1B: Germ cell mutagenicity, Hazard Category 1B

Carc. 1A: Carcinogenicity, Hazard Category 1A

Carc. 1B: Carcinogenicity, Hazard Category 1B

Carc. 2: Carcinogenicity, Hazard Category 2

Repr. 1A: Reproductive toxicity, Hazard Category 1A

Repr. 1A: Reproductive toxicity, Hazard Category 1A

Repr. 2: Reproductive toxicity, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

STOT RE 1: Specific target organ toxicity - Repeated exposure, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2