

**1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY**

Product Name: Verone Universal Catalyst  
Product Code: 236, 238

Application: Curing catalyst for Verone condensation cured silicones

Company: Davis Schottlander & Davis Ltd  
Fifth Avenue, Letchworth Garden City,  
Herts SG6 2WD UK  
Tel: +44 (0)1462 480848 Fax: +44 (0)1462 482802  
[msds@schottlander.co.uk](mailto:msds@schottlander.co.uk) [www.schottlander.com](http://www.schottlander.com)

Date: 25.04.2016 V1.0

**2. HAZARD IDENTIFICATION****Classification of the substance or mixture**Hazard categories:

Acute toxicity: Acute Tox. 4  
Serious eye damage/eye irritation: Eye Irrit. 2  
Germ cell mutagenicity: Muta. 2  
Specific target organ toxicity  
- repeated exposure: STOT RE 1  
Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful if swallowed or if inhaled.  
Causes serious eye irritation.  
Suspected of causing genetic defects.  
Causes damage to organs (Thymus) through prolonged or repeated exposure if swallowed.  
Harmful to aquatic life with long lasting effects.

**Label elements****Hazardous components which must be listed on the label:**

alkylstannonic siloxanes

**Signal word:** Danger

Pictograms:

**Hazard statements:**

H302+H332 Harmful if swallowed or if inhaled.  
H319 Causes serious eye irritation.  
H341 Suspected of causing genetic defects.  
H372 Causes damage to organs (Thymus) through prolonged or repeated exposure if swallowed.  
H412 Harmful to aquatic life with long lasting effects.



If skin irritation occurs get medical advice/attention.

**After contact with eyes:**

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**After ingestion:**

Rinse mouth immediately and drink plenty of water. Take water in small sips (dilution effect). Seek immediate medical advice. Do not induce vomiting.

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

No information available.

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

Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Extinguishing media:**

**Suitable extinguishing media:**

Co-ordinate fire-fighting measures to the fire surroundings.

**Special hazards arising from the substance or mixture:**

Non-flammable.

**Additional information:**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

**Environmental precautions:**

Do not allow to enter into surface water or drains.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal .

**Reference to other sections:**

Safe handling: see Section 7

Personal protection equipment: see Section 8

Disposal: see Section 13

## 7. HANDLING AND STORAGE

**Precautions for safe handling:**

Advice on safe handling: Use only in a well ventilated area. Do not breathe gas, fumes, vapour, spray.

**Advice on protection against fire and explosion:**

No special fire protection measures are necessary.

**Conditions for safe storage, including any incompatibilities:**

**Requirements for storage rooms and vessels:**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaust at critical locations.

**Advice on storage compatibility:**

Do not store with strong oxidising materials.

**Further information on storage conditions:**

Keep only in the original container in a cool, dry and well ventilated place, away from foodstuffs.

**Specific end use(s):**

Component A of a silicone based dental impression material.

For use by trained specialist staff.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control Parameters:****Exposure controls:****Appropriate engineering controls:**

Use only in a well ventilated area. Do not breathe gas, fumes, vapour, spray.

**Protective and hygiene measures:**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

**Eye/face protection:**

Suitable eye protection: goggles.

**Hand protection:**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Suitable are gloves of the following material: NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber), FKM (fluoro rubber), CR (polychloroprene, chloroprene rubber).

**Skin protection:**

Wear suitable protective clothing.

**Respiratory protection:**

In case of inadequate ventilation wear respiratory protection.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties:**

Physical state: Paste  
 Colour: Blue  
 Odour: like peppermint  
 pH Value: Not determined

**Test method:****Changes in the physical state:**

Melting point: Not determined  
 Initial boiling point and boiling range: >200°C DIN 51356  
 Flash point: >100°C DIN 51755

**Flammability:**

Solid: Not applicable  
 Gas: Not applicable  
 Lower explosion limits: Not determined  
 Upper explosion limits: Not determined  
 Ignition temperature: >300°C DIN 51794

# SAFETY DATA SHEET

**Auto-ignition temperature:**

Solid: Not applicable

Gas: Not applicable

Decomposition temperature: >250°C

**Oxidising properties:**

Not oxidising:

Vapour pressure (at 20°C): <1 hPa

Density (at 20°C): 1.0 g/cm<sup>3</sup> DIN 51757

Water solubility: Insoluble

**Solubility in other solvents:**

Not determined

Partition coefficient: Not determined

Viscosity/dynamic (23°C): >80000 mPa.s BROOKFIELD

Vapour density: Not determined

Evaporation rate: Not determined

**Other information:**

Solid content: Not determined

## 10. STABILITY AND REACTIVITY

**Reactivity:**

No hazardous reaction when handled and stored according to provisions.

**Chemical stability:**

The product is stable under storage at normal ambient temperatures.

**Possibility of hazardous reactions:**

Reacts with strong oxidising agents.

**Conditions to avoid:**

Higher temperatures advance the formulation of flammable vapours therefore do not expose the product to increased temperatures.

**Incompatible materials:**

No information available.

**Hazardous decomposition products:**

No known hazardous decomposition products.

## 11. TOXICOLOGY INFORMATION

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

Harmful if swallowed or if inhaled.

For the product itself no toxicological data is available. In products with a comparable composition a LD50 (orally species rate) of >2000 mg/kg has been found.

**ATEmix calculated:**

ATE (oral) 741,4 mg/kg; ATE (inhalative vapour) 16,31 mg/l; ATE (inhalative aerosol) 2,224 mg/l.

<u>CAS No.</u>	<u>Chemical Name</u>	<u>Method</u>	<u>Dose</u>	<u>Species</u>	<u>Source</u>
93925-42-9	<u>Exposure routes</u>				
	alkylstannonic siloxanes				
	Oral	ATE	500 mg/kg		
	Inhalative vapour	ATE	11 mg/l		
	Inhalative aerosol	ATE	1,5 mg/l		

**Irritation and corrosivity:**

Causes serious eye irritation.

Based on a Bovine Corneal Permeability Study conducted in accordance with OECD Guideline No.437 (July 2013), H318 is not shown. EC regulation 1272/2008 annex 1, section 1.1.1.5: "For the purpose of classification of health hazards (part 3), the route of exposure, information on mechanisms and metabolism studies are useful for determining the relevance of effects in humans. If this information raises doubts as to their relevance in humans, in spite of the indisputable data legitimacy and quality, a lower classification may be justified. When there is scientific evidence that the mechanism or mode of action is not relevant to humans, the substance or mixture should not be classified."

**Sensitising effects:**

Based on available data, the classification criteria are not met.

**STOT-single exposure:**

Based on available date, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure:**

Causes damage to organs (Thymus) through prolonged or repeated exposure if swallowed. (alkylstannonic siloxanes).

**Carcinogenic/mutagenic/toxic effects for reproduction:**

Suspected of causing genetic defects. (alkylstannonic siloxanes).

**Aspiration hazard:**

Based on available data the classification criteria are not met.

**Additional information on tests:**

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].  
Special hazards arising from the substance or mixture!

## 12. ECOLOGICAL INFORMATION

**Toxicity:**

Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

**Persistence and degradability:**

The product has not been tested.

**Bio accumulative potential:**

The product has not been tested.

Mobility in soil:

The product has not been tested.

**Results of PBT and vPvB assessment:**

The product has not been tested.

**Other adverse effects:**

No information available.

**Further information:**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment methods:****Advice on disposal:**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.  
Dispose of waste according to applicable legislation.

**Contaminated packaging:**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

**14. TRANSPORT INFORMATION****Land transport (ADR/RID)**

**UN No:** No dangerous good in sense of this transport regulation.  
**UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**Packing group:** No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

**UN No:** No dangerous good in sense of this transport regulation.  
**UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**Packing group:** No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

**UN No:** No dangerous good in sense of this transport regulation.  
**UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**Packing group:** No dangerous good in sense of this transport regulation.

**Air transport (ICAO)**

**UN No:** No dangerous good in sense of this transport regulation.  
**UN proper shipping name:** No dangerous good in sense of this transport regulation.  
**Transport hazard class(es):** No dangerous good in sense of this transport regulation.  
**Packing group:** No dangerous good in sense of this transport regulation.  
**Special precautions for user:** No dangerous good in sense of this transport regulation.

**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:**

No dangerous good in sense of this transport regulation.

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information:** 2010/75/EU (VOC): 0,025% (0,246 g/l)

**16. FURTHER INFORMATION****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 Harmonized 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

**LC50:** Lethal concentration, 50%

**LD50:** Lethal dose, 50%

## Relevant H- and EUH-phrases (Number and full text)

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H302+H332 Harmful if swallowed or if inhaled.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H341 Suspected of causing genetic defects.
- H360F May damage fertility.
- H372 Causes damage to organs (Thymus) through prolonged or repeated exposure if swallowed.
- H412 Harmful to aquatic life with long lasting effects.
- EUH208 Contains menthone. May produce an allergic reaction.

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.