

SAFETY DATA SHEET**VP Coupsil® 6508**

Material no.		Version	2.0 / US
Specification	101849	Revision date	05/28/2015
Order Number		Print Date	05/31/2015
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1. Identification**1.1. Product identifier**

Trade name	VP Coupsil® 6508
Chemical Name	Silane, ethenyltriethoxy-, reaction products with silica
CAS-No.	219916-67-3

1.2. Recommended use of the chemical and restrictions on use

Relevant applications identified	VP = Developmental Product. Developmental products are labelled with the VP designation. Commercialization depends on market response. Rubber - producing and processing industry
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1.3. Details of the supplier of the safety data sheet

Company	Evonik Corporation USA 299 Jefferson Road Parsippany, NJ 07054-0677 USA
Telephone	973-929-8000
Telefax	973-929-8040
Email address	Product-Regulatory-Services@Evonik.com

1.4. 24 HOUR EMERGENCY TELEPHONE NUMBERS:

CHEMTREC - US & CANADA:	800-424-9300
CHEMTREC MEXICO:	01-800-681-9531
CHEMTREC INTERNATIONAL:	+1 703-527-3887 (collect calls accepted)
Product Regulatory Services	: 973-929-8060

2. Hazards identification**2.1. Classification of the substance or mixture**

Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Remarks Not a hazardous substance or mixture.

2.2. Label elements

Statutory basis	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
Remarks	Not a hazardous substance or mixture.

2.3. Other hazards

May cause eye irritation.	
Inhalation	No hazard expected in normal use.
Skin	No hazard expected in normal use.

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Eyes	Dust may cause irritation.
Ingestion	No hazard expected in normal use.
Chronic exposure	This product can hydrolyze to form a material posing additional health effects: Ethanol: ACGIH TLV: TWA 1000 ppm; OSHA PEL: TWA 1000 ppm. Liquid and high vapor concentrations cause eye irritation. Contact of liquid with skin causes drying, cracking, and irritation. Inhalation causes irritation of the respiratory tract. Repeated or prolonged exposure to high vapor concentrations may cause drowsiness. Excessive or repeated ingestion may cause central nervous system effects, liver effects and reproductive effects. However, ingestion is not an expected route of exposure. Ethanol has a low potential to cause allergic skin reactions; however, undocumented cases of human skin sensitization have been reported.

Silane, ethenyltriethoxy-, reaction products with silica Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

3. Composition/information on ingredients

3.1. Substances

• Silane, ethenyltriethoxy-, reaction products with silica

CAS-No. 219916-67-3

Remarks Not a hazardous substance or mixture.

Other information

This product is Non-Controlled under the WHMIS Controlled Product Regulations in Canada.

3.2. Mixtures not applicable

4. First aid measures

4.1. Description of first aid measures

InhalationIn case product dust is released: Possible discomfort: cough, sneezing
Move victims into fresh air.**Skin contact**

Wash off with soap and plenty of water.

Eye contact

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes or until all material has been removed. Obtain medical attention.

Ingestion

If accidentally swallowed, rinse mouth thoroughly with water and afterwards, drink plenty of water. In case of discomfort, obtain medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

None known

4.3. Indication of any immediate medical attention and special treatment needed

No hazards which require special first aid measures.

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5. Fire-fighting measures**5.1. Extinguishing media**

Suitable extinguishing media: Water spray, foam, CO₂, dry powder., Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

May be released in case of fire: ethanol, carbon monoxide, carbon dioxide, organic and sulphurous products of decomposition.

5.3. Advice for firefighters

Water used to extinguish fire should not enter drainage systems, soil or stretches of water.

Ensure there are sufficient retaining facilities for water used to extinguish fire.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

In the event of fire, wear self-contained breathing apparatus.

6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment.

6.2. Environmental precautions

Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.

6.3. Methods and material for containment and cleaning up

Use mechanical handling equipment. Collect in suitable containers. Avoid dust formation.

7. Handling and storage**7.1. Precautions for safe handling**

Local ventilation. Always close container tightly after removal of product.

7.2. Conditions for safe storage, including any incompatibilities**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

Explosion protection is recommended in case the explosion limits for the following substance might be exceeded: Ethanol.

Take precautionary measures against static discharges.

When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product.

Storage

Keep in a dry, cool place.

Assure impermeability at all times.

Storage stability

<= 12 month

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8. Exposure controls/personal protection**8.1. Control parameters**

• Silicon dioxide, chemically prepared		
CAS-No.	112926-00-8 7631-86-9	
Control parameters	5 mg/m ³	Permissible exposure limit:(OSHA Z1)
type of exposure	Respirable fraction.	
Control parameters	15 mg/m ³	Permissible exposure limit:(OSHA Z1)
type of exposure	Total dust.	
Control parameters	20millions of particles per cubic foot of air	Time Weighted Average (TWA):(Z3)
Control parameters	0.8 mg/m ³ The exposure limit is calculated from the equation, 80/(%SiO ₂), using a value of 100% SiO ₂ . Lower values of % SiO ₂ will give higher exposure limits.	Time Weighted Average (TWA):(Z3)
• Ethanol		
CAS-No.	64-17-5	
Control parameters	1000 ppm 1900 mg/m ³	Permissible exposure limit:(OSHA Z1)
Control parameters	1000 ppm 1900 mg/m ³	Time Weighted Average (TWA) Permissible Exposure Limit (PEL):(US CA OEL)
Control parameters	1000 ppm	Short Term Exposure Limit (STEL):(ACGIH)
Control parameters	1000 ppm 1900 mg/m ³	Time Weighted Average (TWA):(TN OEL)

8.2. Exposure controls**Engineering measures**

Ensure suitable suction/aeration at the work place and with operational machinery.

Personal protective equipment**Respiratory protection**

A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 or applicable federal/provincial requirements must be followed whenever workplace conditions warrant respirator use. NIOSH's "Respirator Decision Logic" may be useful in determining the suitability of various types of respirators.

Hand protection

Glove material	butyl-rubber
Material thickness	0.5 mm
Break through time	>= 480 min
Glove material	Polychloroprene (PCP)
Material thickness	0.5 mm
Break through time	160 min

The above mentioned hand protection is based on knowledge of the chemistry and anticipated uses of this product but it may not be appropriate for all workplaces. A hazard assessment should be conducted prior to use to ensure suitability of gloves for specific work environments and processes prior to use.

Use impermeable gloves.

Eye protection

Safety glasses with side-shields
If dust occurs: basket-shaped glasses

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Skin and body protection

A safety shower and eye wash fountain should be readily available.

To identify additional Personal Protective Equipment (PPE) requirements, it is recommended that a hazard assessment in accordance with the OSHA PPE Standard (29CFR1910.132) be conducted before using this product.

Hygiene measures

When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work.

To ensure ideal skin protection: use super fatted soaps and skin cream for skin care.

Remove and wash contaminated clothing before re-use.

Protective measures

Handle in accordance with good industrial hygiene and safety practice.

If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used.

If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.

9. Physical and chemical properties**9.1. Information on basic physical and chemical properties**

physical state	solid
Colour	light yellow
Form	powder
Odour	characteristic
Odour Threshold	not determined
pH	7.2 (50 g / l) (20 °C) (suspension)
Melting point/range	not applicable decomposition
Boiling point/range	not applicable decomposition
Flash point	not applicable (solid)
Evaporation rate	not applicable
Flammability (solid, gas)	not determined
Lower explosion limit	not determined
Upper explosion limit	not determined
Vapour pressure	not applicable
Vapour density	no data available
Density	2.0 g/cm ³ (20 °C)
Water solubility	hardly soluble
Partition coefficient: n-	not applicable

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octanol/water
Autoignition temperature > 300 °C
Method: VDI 2263

Thermal decomposition > 200 °C

Viscosity, dynamic not applicable

9.2. Other information

Explosiveness not determined

Minimum ignition energy not determined

Tapped density 220 kg/m³

Metal corrosion No data available

10. Stability and reactivity**10.1. Reactivity**

No dangerous reaction known under conditions of normal use.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Formation of flammable or explosive vapour/air mixtures possible.

10.4. Conditions to avoid

Hydrophobic properties disappear at temperatures > 200°C

10.5. Incompatible materials

Reaction with water, acids and alkaline solutions., Formation of ethanol.

10.6. Hazardous decomposition products

decomposition products with heating above decomposition temperature
Carbon monoxide, Carbon dioxide (CO₂), organic and sulphurous products of decomposition,
Ethanol

11. Toxicological information**11.1. Information on toxicological effects**

Acute oral toxicity No test results available.

Skin irritation No data available

Eye irritation No data available

Sensitization not known

Assessment of STOT single exposure No data available

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Assessment of STOT repeat exposure	No data available
Risk of aspiration toxicity	No aspiration toxicity classification
Mutagenicity assessment	No data available
Carcinogenicity	No data available
Toxicity to reproduction	No data available
Human experience	Toxic effects from handling this product are unknown as yet.
Further information	No results of animal experiments with the product available.

12. Ecological information**12.1. Toxicity**

Toxicity to fish	LC50 (Brachydanio rerio): > 10000 mg/l / 96 h Test substance: Silicon dioxide, derived from chemical synthesis Method: OECD 203 The reported toxic effects relate to the nominal concentration.
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Toxicity in aquatic invertebrates	EC50 Daphnia magna: > 1000 mg/l / 24 h Test substance: Silicon dioxide, derived from chemical synthesis Method: OECD 202 The reported toxic effects relate to the nominal concentration.
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12.2. Persistence and degradability

Biodegradability	The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.
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12.3. Bioaccumulative potential

Bioaccumulation	Not to be expected.
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12.4. Mobility in soil

Mobility	No remarkable mobility in soil is to be expected.
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12.5. Other adverse effects

Further Information	No ecotoxicological studies are available.
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13. Disposal considerations**13.1. Waste treatment methods**

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Waste must be disposed of in accordance with local, state, provincial and federal laws and regulations. Empty containers must be handled with care due to product residue.

Uncleaned packaging

Contaminated packaging should ideally be emptied; it can then be recycled after having been decontaminated.

Other countries: observe the national regulations.

14. Transport information**Not dangerous according to transport regulations.**

- 14.1. UN number: --
- 14.2. UN proper shipping name: --
- 14.3. Transport hazard class(es): --
- 14.4. Packing group: --
- 14.5. Environmental hazards (Marine pollutant): --
- 14.6. Special precautions for user: Yes
Not dangerous according to transport regulations.

15. Regulatory information**US Federal Regulations****OSHA**

If listed below, chemical specific standards apply to the product or components:

- None listed

Clean Air Act Section (112)

If listed below, components present at or above the de minimus level are hazardous air pollutants:

- None listed

CERCLA Reportable Quantities

If listed below, a reportable quantity (RQ) applies to the product based on the percent of the named component:

- None listed

SARA Title III Section 311/312 Hazard Categories

The product meets the criteria only for the listed hazard classes:

- No SARA Hazards

SARA Title III Section 313 Reportable Substances

If listed below, components are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

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- None listed

Toxic Substances Control Act (TSCA)

If listed below, non-proprietary substances are subject to export notification under Section 12 (b) of TSCA:

- None listed

State Regulations**California Proposition 65**

A warning under the California Drinking Water Act is required only if listed below:

- None listed

An employer using HMIS/NFPA labeling must through training ensure that its employees are fully aware of the hazards of the chemicals used.

HMIS Ratings

Health :	1
Flammability :	0
Physical Hazard :	0

16. Other information**Further information**

Revision date 05/28/2015

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Legend

ACC	American Chemistry Council
ACGIH	American Conference of Governmental Industrial Hygienists
ACS	Advisory Committee on Sustainability
ADI	Acceptable Daily Intake
ASTM	American Society for Testing and Materials
ATP	Adaptation to Technical Progress
BCF	Bioconcentration factor
BOD	Biochemical oxygen demand
c.c.	closed cup
CAO	Cargo Aircraft Only
Carc	Carcinogen
CAS	Chemical Abstract Services
CDN	Canada
CEPA	Canadian Environmental Protection Act
CERCLA	Comprehensive Environmental Response – Compensation and Liability Act
CFR	Code of Federal Regulations
CMR	carcinogenic-mutagenic-toxic for reproduction
COD	Chemical oxygen demand
DIN	German Institute for Standardization
DMEL	Derived minimum effect level
DNEL	Derived no effect level
DOT	Department of Transportation
EC50	half maximal effective concentration
EPA	Environmental Protection Agency
ErC50	Reduction of Growth Rate
ERG	Emergency Response Guide Book
FDA	Food and Drug Administration
GHS	Globally Harmonized System of Classification and Labelling of Chemicals (GHS)
GLP	Good Laboratory Practice
GMO	Genetic Modified Organism
HCS	Hazard Communication Standard
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IBC	Intermediate Bulk Container
ICAO-TI	International Civil Aviation Organization- Technical Instructions
ICCA	International Council of Chemical Association
ID	Identification number
IMDG	International Maritime Dangerous Goods
IUPAC	International Union of Pure and Applied Chemistry
ISO	International Organization For Standardization
LC50	50 % Lethal Concentration
LD50	50 % Lethal Dose
L(EC50)	LC50 or EC50
LOAEL	Low est observed adverse effect level
LOEL	Low est observed effect level
MARPOL	International Convention for the Prevention of Pollution from Ships
NFPA	National Fire Protection Association
NOAEL	No observed adverse effect level
NOEC	no observed effect concentration
NOEL	no observed effect level
o. c.	open cup
OECD	Organisation for Economic Cooperation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety and Health Administration
PBT	Persistent, bioaccumulative, toxic
PEC	Predicted effect concentration
PNEC	Predicted no effect concentration
RQ	Reportable Quantity
SDS	Safety Data Sheet
STOT	Specific Target Organ Toxicity
UN	United Nations
vPvB	very persistent, very bioaccumulative

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voc volatile organic compounds
WHMIS Workplace Hazardous Materials Information System
WHO World Health Organization