

# SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

### 1. Identification

Product identifier: VPS SIVO 260

### Chemical name:

Organofunctional polysiloxane, modified

### Other means of identification

None.

### **Recommended restrictions**

**Recommended use:** For industrial use Coupling agent Cross-linking agents Surface modifier **Restrictions on use:** Not determined.

### Manufacturer/Importer/Distributor Information

Company Name	: Evonik Corporation 2 Turner Place Piscataway, NJ 08854 USA

- Telephone : +1 732 981 5000
- E-mail : product-regulatory-services@evonik.com

### **Emergency telephone number:**

24-Hour Health	: +1 800 424 9300 (CHEMTREC - US & CANADA)
Emergency	800 681 9531 (CHEMTREC MEXICO)
	+1 703 527 3887 (CHEMTREC WORLD)

### 2. Hazard(s) identification

### **Hazard Classification**

### Health Hazards

Serious eye irritation

Category 2A

### Label Elements

Hazard Symbol:



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Warning



Hazard Statement:	Causes serious eye irritation.
Precautionary Statements	
Prevention:	Wash thoroughly after handling. Wear eye protection/face protection.
Response:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Hazard(s) not otherwise	None.

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classified	(HNOC):

### 3. Composition/information on ingredients

#### Chemical name:

Organofunctional polysiloxane, modified

### Substances

### Composition information of impurities and stabilizers

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
3-(Trimethoxysilyl)propylamine		13822-56-5	<3%
methanol		67-56-1	<=0.9%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** This product is intended for Research and Development use only.

The exact concentration has been withheld as a trade secret.

### 4. First-aid measures

### Description of necessary first-aid measures

General information:	Remove contaminated or saturated clothing immediately and follow safe disposal procedures.
Inhalation:	If aerosol or mists are inhaled, take affected persons out into the fresh air.In case of persistent discomfort or other symptoms, consult a physician immediately.
Skin Contact:	Immediately wash skin with soap and plenty of water. Remove contaminated clothing. Obtain medical attention immediately if symptoms occur. Wash clothing before reuse.
Eye contact:	In case of contact, immediately flush eyes with plenty of water, or if necessary, with eye rinsing solution. In case of persistent discomfort, consult an ophthalmologist.



Ingestion:	If substance is accidentally swallowed, do not induce vomiting. If fully conscious, have patient rinse mouth with plenty of water and drink plenty of water in small sips. If unconscious, ensure person is in a stable position. Never give anything by mouth to an unconscious person. Obtain immediate medical attention.
Personal Protection for First- aid Responders:	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.
Most important symptoms/effe	cts, acute and delayed
Symptoms:	If large amount of substance is absorbed, liberation of reaction product (methanol) can lead to symptoms of poisoning. Possible signs of poisoning include daze, dizziness, nausea, colicky abdominal pain or respiratory disturbance. Symptoms of increasing intoxication include dysopia or loss of eyesight. Treatment may include immediate gastric lavage, antidote treatment or correction of acid-base balance. Detection of the substance (methanol) is possible in blood. Evidence shows that the treatment of methanol absorption is enhanced through the administration of ethanol, which should be given to produce a blood level of at least 0.1%. Ethanol diminishes the production of toxic metabolites of methanol. Obtain treatment of allergic reaction if necessary.
Hazards:	None known.
Indication of immediate medica	al attention and special treatment needed
Treatment:	If required, therapy of irritative effect. Treatment Early endoscopy in order to assess mucosa lesions in the oesophagus and stomach which may

appear. If necessary, aspirate leftover substance. Detection of substance (Methanol) possible in: Blood Antidote treatment: ethanol.

### 5. Fire-fighting measures

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	foam Water spray. Carbon Dioxide. dry powder
Unsuitable extinguishing media:	High volume water jet.
Specific hazards arising from the chemical:	Standard procedure for chemical fires.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	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.
Special protective equipment for fire-fighters:	As in any fire, wear self-contained positive-pressure breathing apparatus, (MSHA/NIOSH approved or equivalent) and full protective gear.

6. Accidental re	elease measu	res	
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Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment.
Methods and material for containment and cleaning up:	Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Environmental Precautions:	Obey relevant local, state, provincial and federal laws and regulations. Do not contaminate any lakes, streams, ponds, groundwater or soil.

## 7. Handling and storage

### Handling

Technical measures (e.g. Local and general ventilation):	Provide good ventilation or extraction.
Safe handling advice:	Assure sufficient ventilation. Application, processing: Provide good ventilation or extraction.Handle in accordance with good industrial hygiene and safety practice. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. Avoid contact with skin and eyes. Do not breathe in vapours or aerosols.
Contact avoidance measures:	No data available.
Hygiene measures:	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. Remove contaminated or saturated clothing. Wash contaminated clothing before reuse.
Storage	
Safe storage conditions:	Keep containers tightly closed in a cool, well-ventilated place. Protect from moisture.Normal measures for preventive fire protection.
Safe packaging materials:	No data available.
Storage Temperature:	No data available.

### 8. Exposure controls/personal protection

### Control Parameters Occupational Exposure Limits

hemical Identity Type Exposure Limit Values		nit Values	Source	
methanol	TWA	200 ppm		US. ACGIH Threshold Limit Values, as
				amended (03 2016)
	STEL	250 ppm		US. ACGIH Threshold Limit Values, as
				amended (03 2016)
	STEL	250 ppm	325 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2010)
	REL	200 ppm	260 mg/m3	US. NIOSH: Pocket Guide to Chemical
				Hazards, as amended (2010)
	PEL	200 ppm	260 mg/m3	US. OSHA Table Z-1 Limits for Air



				Contaminants (2 amended (03 20	9 CFR 1910.1000), as 16)
Hazardous comp	onents without	workplace co	ontrol parameters		,
Appropriate En Controls	gineering	Provide	e good ventilation	or extraction.	
Individual prote	ection measure	es, such as	personal protect	ive equipment	
Eye/face protect	ction:	Safety	glasses with side-	shields	
Skin Protection					
Hand Protectio	n:	Break-t Materia Break-t Additio require should based glove n observe practice mechai determ protect this pro assess	ments of specific with p be clarified with p on our own tests, i nanufacturers, or o e that the daily dur e far shorter due to nical strain on the nined acc. EN 374. tion is based on kn oduct but it may no sment should be co	ber (Viton) 80 min election of protective glov workplaces., Suitability for rotective glove manufacture ferences from the literat derived by analogy with si ration of usage of a chem to the many influencing fac glove material) than the p Additional Information: The owledge of the chemistry of be appropriate for all wo	r specific workplaces irers., The information is ture and information from milar materials., Please ical protective glove is in ctors (e.g. temperature, bermeation time ne above mentioned hand and anticipated uses of orkplaces. A hazard nsure suitability of gloves
Skin and Body	Protection:	fountain Protect assess	n should be readily tive Equipment (PF ment in accordance	ipment required. A safety y available. To identify ad PE) requirements, it is rec with the OSHA PPE St inducted before using this	ditional Personal commended that a hazard andard
Respiratory Pro	otection:	TLV ard ABEK) protect filter cla contam when h breathi protect 1910.1 must be NIOSH	e exceeded: use ra or wear a self com ion equipment with ass for the respirat ninant concentration nandling the product ng apparatus mus ive equipment. A r 34 and ANSI Z88. e followed whenev	t be used. Note time limit respiratory protection prog 2 or applicable federal/prover ver workplace conditions were vision Logic" may be usefu	a suitable filter (filter type tus Use only respiratory ur digit test number. The e maximum expected ciculates) that may arise exceeded, self-contained for wearing respiratory gram that meets OSHA povincial requirements warrant respirator use.
Hygiene measu	Ires:	break a	-	drink or smoke. Wash fac emove contaminated or s fore reuse.	
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## 9. Physical and chemical properties

Appearance	
Physical state:	liquid
Form:	liquid
Color:	Colourless to light yellow
Odor:	Slight, like fruit
Odor Threshold:	No data available.
pH:	Not determined.
Freezing point:	Not applicable
Boiling Point:	265 °C
Flash Point:	> 95 °C (DIN EN ISO 2719 (Pensky-Martens, Closed Cup))
Evaporation Rate:	Not determined.
Flammability (solid, gas):	not flammable
Explosive limit - upper:	Not determined.
Explosive limit - lower:	Not determined.
Vapor pressure:	No data available.
Vapor density (air=1):	No data available.
Density:	1.156 g/cm3 (20 °C)
Relative density:	No data available.
Solubility in Water:	immiscible
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	Not determined.
Self Ignition Temperature:	not spontaneously flammable
Decomposition Temperature:	Not determined.
Kinematic viscosity:	No data available.
Dynamic viscosity:	<= 750 mPa.s (20 °C)
Other information	
VOC Content:	US. Clean Air Act Section 111 SOCMI Intermediate or Final Volatile Organic Compunds (VOC) - 40 CFR part 60.489: This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). 40 CFR 51.100(s) - Definition - Volatile Organic Compounds (VOC) Exemptions: This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.
Explosive properties:	No data available.
Oxidizing properties:	No data available.
Minimum ignition temperature:	Not determined.
Metal Corrosion:	No data available.
	Not applicable

### 10. Stability and reactivity

**Reactivity:** 

No dangerous reaction known under conditions of normal use.



Chemical Stability:	Stable under recommended storage conditions.
Possibility of hazardous reactions:	No dangerous reactions known.
Conditions to avoid:	Protect from moisture.
Incompatible Materials:	None known.
Hazardous Decomposition Products:	Methanol in case of hydrolysis. Alcohol formed by hydrolysis lowers the flash point of the product.

### 11. Toxicological information

# Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

### Information on toxicological effects

### Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available. Acute toxicity estimate : > 5,000 mg/kg Acute toxicity estimate : > 5,000 mg/kg
Dermal Product:	No data available. Acute toxicity estimate : > 5,000 mg/kg
Inhalation Product:	No data available. Acute toxicity estimate : > 40 mg/l Vapour Acute toxicity estimate : > 200 mg/l Vapour
Repeated dose toxicity Product:	No data available.
Components: 3-	NOAEL (Rat(male and female), Oral): 200 mg/kg LOAEL (Rat(male and
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Product name: VPS SIVO 260	
(Trimethoxysilyl)propylam ine	female), Oral): 600 mg/kg
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritatio Product:	on May irritate eyes.
Respiratory or Skin Sensitization Product:	n No data available.
Carcinogenicity Product:	Contains no carcinogenic substances as defined by NTP, IARC and/or OSHA.
	ation of Carcinogenic Risks to Humans: one present in regulated quantities
US. National Toxicology Program No carcinogens present or n	n (NTP) Report on Carcinogens: one present in regulated quantities
	d Substances (29 CFR 1910.1001-1050), as amended: one present in regulated quantities
Germ Cell Mutagenicity	
In vitro Product:	No data available.
In vivo Product:	No data available.
<b>Components:</b> 3- (Trimethoxysilyl)propylam	Micronucleus test (OECD 474) Intraperitoneal (Mouse): negative
ine methanol	Micronucleus test Intraperitoneal (Mouse, male and female): negative Chromosomal aberration (OECD 474) Intraperitoneal (Mouse, male and female): negative
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	The toxicological data on this product have not been determined experimentally.



## 12. Ecological information

# Ecotoxicity:

Acute hazards to the	he aquatic e	nvironment:	
Fish Product:		No data available.	
Aquatic Invertebr Product:	rates	No data available.	
Components: 3- (Trimethoxysily ine	/l)propylam	EC 50 (Daphnia magna, 48 h): 331 mg/l tested substance: Structurally similar substance	
methanol		EC 50 (Daphnia magna, 96 h): 18,260 mg/l literature	
Chronic hazards to	the aquation	environment:	
Fish Product:		No data available.	
Aquatic Invertebr Product:	rates	No data available.	
Toxicity to Aquat Product:	ic Plants	No data available.	
Components: 3- (Trimethoxysily ine	/l)propylam	EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l te substance: Structurally similar substance	ested
methanol		ErC50 (Selenastrum capricornutum (green algae), 96 h): Approximate 22,000 mg/l literature	
Persistence and Degr	adability		
Biodegradation Product:		No data available.	
BOD/COD Ratio Product:		No data available.	
Bioaccumulative pote Bioconcentration Product:		<b>F)</b> No data available.	
Partition Coefficient n Product:	-octanol / w	a <b>ter (log Kow)</b> Log Kow: Not determined.	
Mobility in soil:		No data available.	
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Other adverse effects:	An Expert Judgment stated that no classification is necessary based on present knowledge.
13. Disposal considerations	
Disposal methods:	Waste must be disposed of in accordance with federal, state, provincial and local regulations. Since empty containers retain product residue, follow MSDS and label warnings even after container is emptied.
Contaminated Packaging:	Do not reuse empty containers and dispose of in accordance with the regulations issued by the appropriate local authorities. If there is product residue in the emptied container, follow directions for handling on the container's label. Incorrect disposal or reuse of this container is illegal and can be dangerous. Other countries: observe the national regulations.

### 14. Transport information

### **Domestic regulation**

### 49 CFR

Not regulated as a dangerous good Remarks : Not dangerous according to transport regulations.

### **International Regulations**

### UNRTDG

Not regulated as a dangerous good

### IATA-DGR

Not regulated as a dangerous good

### IMDG-Code

Not regulated as a dangerous good

### Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

### 15. Regulatory information

### **US Federal Regulations**

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

# US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended None present or none present in regulated quantities.

### CERCLA Hazardous Substance List (40 CFR 302.4):

#### Chemical Identity METHANOL



### Superfund Amendments and Reauthorization Act of 1986 (SARA)

### **Hazard categories**

Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130): None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3) None present or none present in regulated quantities.

### **US State Regulations**

### **US.** California Proposition 65



**WARNING:** This product can expose you to chemicals including, methanolwhich is [are] known to the State of California to cause birth defects or other reproductive harm.

US. New Jersey Worker and Community Right-to-Know Act No ingredient regulated by NJ Right-to-Know Law present.

### US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

### US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

### 16.Other information, including date of preparation or last revision

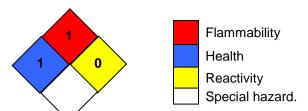
### **HMIS Hazard ID**

Health	1
Flammability	1
Physical Hazards	0
PERSONAL PROTECTION	

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; \*Chronic health effect



### **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

Issue Date:	07/17/2020
Version #:	1.0
Further Information:	No data available.
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.
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