### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 1 of 14 Print Date 04/24/2025

# SAFETY DATA SHEET

### FRPS 410510

Section 1. Identification		
GHS product identifier Chemical name CAS number Other means of identification Product type	::	FRPS 410510 Mixture Mixture CC10410510 solid
<u>Relevant identified uses of the subs</u> Product use	tance :	or mixture and uses advised against Industrial applications.
Supplier's details	:	AVIENT CORPORATION 33587 Walker Road, Avon Lake, OH 44012
		1 (440) 930-1000 or 1 (844) 4AVIENT
Emergency telephone number (with hours of operation)	:	CHEMTREC 1-800-424-9300 (24hrs for spill, leak, fire, exposure or accident).

# Section 2. Hazards identification

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and the end-user (fabricator) must take the necessary precautions (mechanical ventilation, respiratory protection, etc.) to protect employees from exposure. After handling, always wash hands thoroughly with soap and water.

OSHA/HCS status	:	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Classification of the substance or mixture	:	Not classified.
GHS label elements		
Signal word Hazard statements	:	No signal word. No known significant effects or critical hazards.

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025

# **ÀVIENT**

Page 2 of 14 Print Date 04/24/2025

#### **Precautionary statements**

	:	Not applicable.
Prevention	:	Not applicable.
Response	:	Not applicable.
Storage	:	Not applicable.
Disposal	:	Not applicable.
Supplemental label elements	:	None known.
Hazards not otherwise classified	:	None known.
		Not available.

## Section 3. Composition/information on ingredients

Substance/mixture	:	Mixture
Chemical name	:	Mixture
Other means of identification	:	CC10410510

#### CAS number/other identifiers

Ingredient name	%	CAS number
2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-	>= 3 - <= 5	3806-34-6
bis(octadecyloxy)-		
2,4,8,10-Tetraoxa-3,9-diphosphaspiro[5.5]undecane, 3,9-bis[2,4-	>= 1 - <= 3	26741-53-7
bis(1,1-dimethylethyl)phenoxy]-		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

#### Description of necessary first aid measures

Eye contact	:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

### FRPS 410510

# **ÀVIENT**

Version Number 1.0	Page 3 of 14
Revision Date 04/23/2025	Print Date 04/24/2025

Skin contact Ingestion	:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Most important symptoms/effects, acu	ite ai	
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u> Eye contact Inhalation Skin contact Ingestion		No known significant effects or critical hazards. No specific data. No specific data. No specific data. No specific data.
Indication of immediate medical atten	ntior	and special treatment needed, if necessary
Notes to physician Specific treatments	: :	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. No specific treatment.
Protection of first-aiders	:	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

### Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media	:	In case of fire, use water spray (fog), foam, dry chemical or CO <sub>2</sub> . None known.
Specific hazards arising from the chemical	:	No specific fire or explosion hazard.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 4 of 14	4
Print Date 04/24/2025	5

		carbon monoxide sulfur oxides phosphorus oxides metal oxide/oxides
Special protective actions for fire- fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through
For emergency responders	:	spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and materials for containme	nt a	nd cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

:

### **Precautions for safe handling**

**Protective measures** 

Put on appropriate personal protective equipment (see Section 8).

### FRPS 410510

# **ÀVIENT**

Version Number 1.0	Page 5 of 14
Revision Date 04/23/2025	Print Date 04/24/2025

Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

# Section 8. Exposure controls/personal protection

### **Control parameters**

### **Occupational exposure limits**

Ingredient name	Exposure limits
2,4,8,10-Tetraoxa-3,9- diphosphaspiro[5.5]undecane, 3,9- bis(octadecyloxy)-	None.
2,4,8,10-Tetraoxa-3,9- diphosphaspiro[5.5]undecane, 3,9- bis[2,4-bis(1,1-dimethylethyl)phenoxy]-	None.

Appropriate engineering controls	:	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
Individual protection measures		
Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety
		5/14

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025

# **ÀVIENT**

Page 6 of 14
Print Date 04/24/2025

Eye/face protection	:	showers are close to the workstation location. Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

### **Appearance**

Physical state Color Odor Odor threshold pH Melting point Boiling point Flash point		solid [Pellets.] NO PIGMENT Faint odor. Not available. Not available. Not available. Not available. Not applicable.
Burning time Burning rate Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapor pressure	:	Not available. Not available. Not available. Not available. <b>Lower:</b> Not applicable. <b>Upper:</b> Not applicable. Not available.

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025

# **ÀVIENT**

Page 7 of 14 Print Date 04/24/2025

Vapor density	: Not applicable.
Relative density Solubility Solubility in water	<ul><li>Not available.</li><li>Not available.</li><li>insoluble in water.</li></ul>
Partition coefficient: n- octanol/water Auto-ignition temperature	<ul><li>Not applicable.</li><li>Not applicable.</li></ul>
Decomposition temperature SADT Viscosity	<ul> <li>Not available.</li> <li>Not available.</li> <li>Dynamic: Not available.</li> <li>Kinematic: Not applicable.</li> </ul>

# Section 10. Stability and reactivity

Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	Stable under recommended storage and handling conditions (see Section 7).
Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	:	Keep away from extreme heat and oxidizing agents.
Incompatible materials	:	Keep away from strong acids. Oxidizer.
Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,4,8,10-Tetraoxa-3,9-diphosph	aspiro[5.5]undecane	, 3,9-bis(octadecyloxy	/)-	
	LD50 Oral	Rat	10,000 mg/kg	-
2,4,8,10-Tetraoxa-3,9-diphosph	aspiro[5.5]undecane	, 3,9-bis[2,4-bis(1,1-d	imethylethyl)phenoxy	]-
	LD50 Oral	Rat	5,580 mg/kg	-

**Conclusion/Summary** 

: Mixture.Not fully tested.

### Irritation/Corrosion

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 8 of 14
Print Date 04/24/2025

Product/ingredient name	Result	Species	Score	Exposure	Observation	
2,4,8,10-Tetraoxa-3,9- diphosphaspiro[5.5]undecan e, 3,9-bis(octadecyloxy)-	Eyes - Mild irritant	Rabbit	-		-	
2,4,8,10-Tetraoxa-3,9- diphosphaspiro[5.5]undecan e, 3,9-bis[2,4-bis(1,1- dimethylethyl)phenoxy]-	Skin - Severe irritant	Rabbit	-		-	
Conclusion/Summary						
Skin		ot fully tested				
Eyes		ot fully tested				
Respiratory	: Mixture.No	ot fully tested				
<b>Sensitization</b>						
Conclusion/Summary						
Skin		ot fully tested				
Respiratory	: Mixture.No	ot fully tested				
<b>Mutagenicity</b>						
Conclusion/Summary	: Mixture.No	ot fully tested				
<b>Carcinogenicity</b>						
Conclusion/Summary	: Mixture.No	ot fully tested				
<u>Reproductive toxicity</u>						
Conclusion/Summary	: Mixture.No	ot fully tested				
<b>Teratogenicity</b>						
Conclusion/Summary	: Mixture.No	ot fully tested				
Specific target organ toxicity (single exposure) Not available.						
Specific target organ toxicity Not available.	y (repeated exposure)					
Aspiration hazard Not available.						

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025

# **ÀVIENT**

### Page 9 of 14 Print Date 04/24/2025

Information on the likely routes of exposure	:	Not available.
Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion	::	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical, ch	ıemi	cal and toxicological characteristics
Eye contact Inhalation Skin contact Ingestion	::	No specific data. No specific data. No specific data. No specific data.
Delayed and immediate effects and a	also o	chronic effects from short and long term exposure
Short term exposure		
Potential immediate effects Potential delayed effects	:	Not available. Not available.
Long term exposure		
Potential immediate effects Potential delayed effects Potential chronic health effects	:	Not available. Not available.
Conclusion/Summary	:	Mixture.Not fully tested.
General Carcinogenicity Mutagenicity Teratogenicity Developmental effects Fertility effects	: : : : : : : : : : : : : : : : : : : :	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. Not available. Not available. No known significant effects or critical hazards.
<u>Numerical measures of toxicity</u> <u>Acute toxicity estimates</u> N/A		
Other information	:	This mixture has not been evaluated as a whole for health effects.

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 10 of 14 Print Date 04/24/2025

Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

## Section 12. Ecological information

<b>Toxicity</b>
-----------------

Product/ingredient name	Result	Species	Exposure		
FRPS 410510			· •		
Remarks - Acute - Aquatic invertebrates.:	Chemicals are not readily available as they are bound within the polymer matrix.				
Conclusion/Summary	:	Chemicals are not readily available as they are polymer matrix.	bound within the		
Persistence and degradability					
Conclusion/Summary	:	Chemicals are not readily available as they are polymer matrix.	bound within the		
Conclusion/Summary	:	Chemicals are not readily available as they are polymer matrix.	bound within the		
Bioaccumulative potential Not available.					
<u>Mobility in soil</u>					
Soil/water partition coefficien (KOC)	nt :	Not available.			
Other adverse effects	:	No known significant effects or critical hazard	s.		

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 11 of 14 Print Date 04/24/2025

products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List: Not listed

United States - RCRA Toxic hazardous waste "U" List: Not listed

## Section 14. Transport information

U.S.DOT 49CFR Ground/Air/Water	:	Not regulated for transportation.
International Air ICAO/IATA	:	Not classified as dangerous goods under transport regulations.
International Water IMO/IMDG	:	Not classified as dangerous goods under transport regulations.

## Section 15. Regulatory information

U.S. Federal regulations	: United States - TSCA 12(b) - Chemical export notification: None of the components are listed.
	<b>United States - TSCA 4(a) - Final Test Rules:</b> Not listed
	United States - TSCA 4(a) - ITC Priority list: Not listed
	United States - TSCA 4(a) - Proposed test rules: Not listed
	United States - TSCA 4(f) - Priority risk review: Not listed
	<b>United States - TSCA 5(a)2 - Final significant new use rules:</b> Not listed
	United States - TSCA 5(a)2 - Proposed significant new use rules:
	Not listed
	United States - TSCA 5(e) - Substances consent order: Not listed
	United States - TSCA 6 - Final risk management: Not listed
	United States - TSCA 6 - Proposed risk management: Not listed
	United States - TSCA 8(a) - Chemical risk rules: Not listed
	United States - TSCA 8(a) - Dioxin/Furane precusor: Not listed
	United States - TSCA 8(a) - Chemical Data Reporting (CDR): Not
	determined
	United States - TSCA 8(a) - Preliminary assessment report
	11/14

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 12 of 14 Print Date 04/24/2025

		<ul> <li>(PAIR): Not listed</li> <li>United States - TSCA 8(c) - Significant adverse reaction (SAR): Not listed</li> <li>United States - TSCA 8(d) - Health and safety studies: Not listed</li> <li>United States - EPA Clean water act (CWA) section 307 - Priority pollutants: Not listed</li> <li>United States - EPA Clean water act (CWA) section 311 - Hazardous substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - EPA Clean air act (CAA) section 112 - Accidental release prevention - Flammable substances: Not listed</li> <li>United States - Department of commerce - Precursor chemical: Not listed</li> </ul>
Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs)	:	Not listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II	:	Not listed
Substances DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential	:	Not listed

#### US. EPA CERCLA Hazardous Substances (40 CFR 302)

not applicable

### SARA 311/312

**Chemicals**)

Classification

: Not applicable.

### **Composition/information on ingredients**

No products were found.

Name	%	Classification
2,4,8,10-Tetraoxa-3,9-	>= 3 - <= 5	EYE IRRITATION - Category 2B
diphosphaspiro[5.5]undecan		
e, 3,9-bis(octadecyloxy)-		
2,4,8,10-Tetraoxa-3,9-	>= 1 - <= 3	SKIN IRRITATION - Category 2
diphosphaspiro[5.5]undecan		EYE IRRITATION - Category 2A
e, 3,9-bis[2,4-bis(1,1-		
dimethylethyl)phenoxy]-		

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025

# **ÀVIENT**

Page 13 of 14 Print Date 04/24/2025

Not applicable.

<u>State regulations</u> Massachusetts New York New Jersey Pennsylvania	:	None of the components are listed. None of the components are listed. None of the components are listed. The following components are listed: Aluminate (Al(OH)63-), (OC-6-11)-, magnesium carbonate hydroxide (2:6:1:4)
California Prop. 65		
This product does not require a Safe H	arbor	r warning under California Prop. 65.
United States inventory (TSCA 8b)	:	All components are active or exempted.
Canada inventory	:	Not determined.
<u>International regulations</u> <u>Inventory list</u>		
Australia	:	Not determined.
Canada	:	Not determined.
China	:	All components are listed or exempted.
Eurasian Economic Union	:	Russian Federation inventory: Not determined.
Japan	:	Japan inventory (CSCL): Not determined.
-		Japan inventory (ISHL): Not determined.
New Zealand	:	Not determined.
Philippines	:	Not determined.
Republic of Korea	:	Not determined.
Taiwan	:	Not determined.
Thailand	:	Not determined.
Turkey	:	Not determined.
United States	:	All components are active or exempted.
Viet Nam	:	Not determined.

## Section 16. Other information

Hazardous Material Information System (U.S.A.)

Health	/	0
Flammability		0
Physical hazards		0

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them.

### FRPS 410510

Version Number 1.0 Revision Date 04/23/2025



Page 14 of 14 Print Date 04/24/2025

HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual. History

<u>Instory</u>		
Date of printing	:	04/24/2025
Date of issue/Date of revision	:	04/23/2025
Date of previous issue	:	00/00/0000
Version	:	1.0
Key to abbreviations	:	ATE = Acute Toxicity Estimate
•		BCF = Bioconcentration Factor
		GHS = Globally Harmonized System of Classification and Labelling of
		Chemicals
		IATA = International Air Transport Association
		IBC = Intermediate Bulk Container
		IMDG = International Maritime Dangerous Goods
		LogPow = logarithm of the octanol/water partition coefficient
		MARPOL = International Convention for the Prevention of Pollution From
		Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine
		pollution)
		UN = United Nations
References	:	Not available.

#### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist. Particularly this information may not be valid for such material used in conjunction with any other materials or in any process, unless specified in the text.