

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

Page 1/8

Silvanus

Revision 11 Revision date 2020-05-22

1.1. Product identifier

Product name	Silvanus

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [SU1] Agriculture, forestry, fishery;
Description	A unique formulation of phosphite and silicon

1.3. Details of the supplier of the safety data sheet

Address Milbank House

Earls Colne Business Park

Earls Colne
Essex
CO6 2NS
www.orionft.com
01787 220560
info@orionft.com

1.4. Emergency telephone number

Web

Email

Telephone

Emergency telephone number | 01787 220560

9am - 5pm

For medical advice or information you should contact your GP or NHS 111 (or NHS 24 in Scotland) on 111 (for 24 hour health advice)

If you are a healthcare professional with an enquiry please visit www.TOXBASE.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2.	Classification - EC
1272/	2008

Skin Sens. 1: H317; Eye Irrit. 2: H319;

2.2. Label elements

Hazard pictograms



Signal Word

Warning

Hazard Statement

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Eye Irrit. 2: H319 - Causes serious eye irritation.

Precautionary Statement: Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Revision 11 **Revision date** 2020-05-22

2.2. Label elements

Precautionary Statement:	P302+P352 - IF ON SKIN: Wash with plenty of water/ .
Response	P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
	P337+P313 - If eye irritation persists: Get medical advice/attention.
Precautionary Statement:	P501 - Dispose of contents/container to an approved disposal site, in accordance with local
Disposal	regulations.
2.3. Other hazards	

Other hazards	This mixture is not classified as PBT or vPvB according to current EU criteria.
Outer Hazarus	This mixture is not classified as i bit of virvo according to current Lo criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Potassium Phosphite		13977-65-6	604-162-9	01-2119988836-13	70 - 90%	Eye Irrit. 2: H319;
b-alanine, N-(2-Hydroxyethyl)-N-[2- [(1-oxooctyl)amino]ethyl]		64265-45-8	264-761-2		1 - 10%	Skin Sens. 1: H317; Eye Irrit. 2: H319;
UREA		57-13-6	200-315-5	01-2119463277-33	1 - 10%	
Poly(oxy-1,2-ethanediyl), a-[3- [1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]propyl]-w-hydroxy-		67674-67-3	614-100-2		1 - 15%	Eye Irrit. 2: H319; Acute Tox. 4: H332; Aquatic Chronic 3: H412;

Further information

Product Shelf Life Recommended shelf life 3 years from date of delivery.	
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air.	
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed.	
Skin contact	Remove contaminated clothing. Wash with water and soap as a precaution.	
Ingestion	DO NOT INDUCE VOMITING. Rinse mouth thoroughly.	

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

Inhalation	May cause irritation to respiratory system.	
Eye contact	Causes serious eye irritation.	
Skin contact	May cause sensitisation by skin contact.	
Ingestion	May cause irritation to mucous membranes.	

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

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Contact lenses should be removed. Rinse immediately with plenty of water. Seek medical attention
	if irritation or symptoms persist.
Skin contact	Seek medical attention if irritation or symptoms persist.
Ingestion	Drink 1 to 2 glasses of water. Seek medical attention if irritation or symptoms persist.
General information	

If you feel unwell, seek medical advice (show the label where possible). Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Revision 11 Revision date 2020-05-22

This product is not flammable . Use fire	extinguishing media appropriate for surrounding materials.			
n the substance or mixture				
Burning produces irritating, toxic and ob	noxious fumes.			
Wear suitable respiratory equipment wh	en necessary.			
· ·	o not breath fumes. Standard procedure for chemical fires. propriate to local circumstances and the surrounding			
ase measures				
ctive equipment and emergency procedure	98			
Wear suitable protective equipment.				
Advise local authorities if large spills car	nnot be contained.			
ontainment and cleaning up				
For large spills:. Absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water. For small spills:. Flush down the drain with plenty of water.				
See section 2, 7, 8, 13 for further information.				
torage				
ng				
Adopt best Manual Handling considerati	ons when handling, carrying and dispensing.			
<u> </u>				
including any incompatibilities				
	r tightly closed. Keep out of the reach of children. Store in			
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Store in a cool, dry area. Keep contained original container. A unique formulation of phosphite and substitution of phosphite	WEL 8-hr limit mg/m3: 4			
Store in a cool, dry area. Keep contained original container. A unique formulation of phosphite and substitution of phosphite	WEL 8-hr limit mg/m3: 4 WEL 15 min limit mg/m3: WEL 15 min limit mg/m3 total -			
	The substance or mixture Burning produces irritating, toxic and ob Wear suitable respiratory equipment who In the event of a fire and/or explosion do Use extinguishing measures that are ap environment. Base measures Ctive equipment and emergency procedure Wear suitable protective equipment. Advise local authorities if large spills car Intainment and cleaning up For large spills:. Absorb with inert, absord containers for disposal. Clean spillage a down the drain with plenty of water. See section 2, 7, 8, 13 for further informatorage Integration of the suitable protective equipment informatorage Integration of the suitab			

Revision 11
Revision date 2020-05-22

DNEL: Derived no-effect level.

Exposure Pattern - Workers

UREA	Acute inhalation - Systemic effects	292 mg/m³		
	Acute dermal - Systemic effects	580 mg/kg	Long-term - inhalation - Systemic effects	292 mg/m³
	Long-term - dermal - Systemic effects	580 mg/kg	Gliects	

Exposure Pattern - General population

UREA	Acute inhalation - Systemic 1	125 mg/kg	
	effects		
	Acute dermal - Systemic effects 5	580 mg/kg Acute oral - Systemic effective Acute oral - Systemi	cts 42 mg/kg
	Long-term - inhalation - Systemic 1	125 mg/m³ Long-term - oral - Systemic effe	cts 42 mg/kg
	effects		

8.2. Exposure controls





Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene and safety practice. Use appropriate personal protective equipment. Wear suitable protective clothing and eye/face protection.

8.2.1. Appropriate engineering controls

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapours below there respective threshold limit value. Ensure eyewash stations and safety showers are close to the workstation location.

Eye / face protection Skin protection -Handprotection

Avoid contact with eyes. If splashes are likely to occur, wear: safety glasses with side-shields.

Rubber gloves.

Respiratory protection

No personal respiratory protective equipment normally required. In case of insufficient ventilation wear suitable respiratory equipment.

8.2.3. Environmental exposure controls

Prevent further leakage or spillage if safe to do so.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Revision 11 **Revision date** 2020-05-22

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Colour	Amber
Odour	Characteristic
Odour threshold	No data available
рН	6.6 - 7.6
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	1.35 - 1.45 g/cm3
Partition coefficient	No data available
Autoignition temperature	No data available
Viscosity	< 100 centipoise
Explosive properties	No data available
Oxidising properties	No data available
Melting point	No data available
Initial boiling point	No data available
Flash point	No data available
Solubility	Soluble in water

9.2. Other information

Conductivity	Not relevant
Surface tension	No data available
Gas group	No data available
Benzene Content	No data available
Lead content	No data available
VOC (Volatile organic	
compounds)	

SECTION 10: Stability and reactivity

1	0.	.1	Rea	ctivity

10.1. Reactivity					
	Stable under normal conditions. No specific reactivity hazards associated with this product.				
10.2. Chemical stability					
	Stable under normal conditions. No particular stability concerns.				
10.3. Possibility of hazardous re	10.3. Possibility of hazardous reactions				
	Strong acids. Strong oxidising agents.				
10.4. Conditions to avoid					
	Protect from frost.				
10.5. Incompatible materials					
	No incompatible groups noted.				

10.6. Hazardous decomposition products

No Hazardous decomposition products when stored and handled correctly. Burning produces irritating, toxic and obnoxious fumes

SECTION 11: Toxicological information

11.1. Information on toxicological effects

· · · · · · · · · · · · · · · · · · ·			
	This mixture has not been tested as a whole for health effects. The health effects have been		
	calculated using the methods outlined in Regulation (EC) No 1272/2008 (CLP).		
Acute toxicity	based on available data the classification criteria are not met.		

Revision date 2020-05-22

44.4 Information on toxical arise	nevision date 2020-03-
11.1. Information on toxicologica	T. C.
Skin corrosion/irritation	based on available data the classification criteria are not met.
Serious eye damage/irritation	Eye Irrit. 2: H319 - Causes serious eye irritation.
Respiratory or skin sensitisation	Skin Sens. 1: H317 - May cause an allergic skin reaction.
Germ cell mutagenicity	based on available data the classification criteria are not met.
Carcinogenicity	based on available data the classification criteria are not met.
Reproductive toxicity	based on available data the classification criteria are not met.
STOT-single exposure	based on available data the classification criteria are not met.
STOT-repeated exposure	based on available data the classification criteria are not met.
Aspiration hazard	based on available data the classification criteria are not met.
11.1.2. Mixtures	
	No data available.
11.1.3. Hazard Information	
	No data available.
11.1.4. Toxicological Information	n
Poly(oxy-1,2-ethanediyl), a-[3- [1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]pro pyl]-w-hydroxy-	Dermal Rat LD50: >5000 mg/kg Oral Rat LD50: >5000 mg/kg
pyij-w-iiydioxy-	Inhalation Rat LC50/4 h: 1.08 mg/l
UREA	Oral Rat LD50: 14300.0 mg/kg
OFOTION 40: Facility of the	
SECTION 12: Ecological info	ormation
12.1. Toxicity	
Poly(oxy-1,2-ethanediyl), a-[3- [1,3,3,3-tetramethyl-1- [(trimethylsilyl)oxy]disiloxanyl]pro pyl]-w-hydroxy-	Daphnia EC50/48h: 28.3000 mg/l Fish LC50/96h: 18.1000 mg/l
UREA	Daphnia EC50/48h: 10000.0000 mg/l Golden orfe LC50/48h: >6810 mg/l
12.2. Persistence and degradab	illity
	Substance biodegrades at a moderate rate and inherently biodegradable according to the OECD guide lines.
12.3. Bioaccumulative potential	
	No data is available on this product.
Partition coefficient	
	Silvanus No data available UREA -1.73 Log Pow
	Sittando ito data attando
12.4. Mobility in soil	
	No data is available on this product.
12.5. Results of PBT and vPvB	
	No data is available on this product.
	1 110 data to available of title product.
40 6 Other - diame - ff1-	
12.6. Other adverse effects	T.,
12.6. Other adverse effects	No data available.

Revision 11
Revision date 2020-05-22

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Total Traded a data forte friedricad					
	Dispose of waste and residues in accordance with local authority requirements.				
General information					
	Dispose of in compliance with all local and national requirements.				
Disposal of packaging	Disposal of packaging				
	Do NOT reuse empty containers. Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.				
SECTION 14: Transport info	rmation				
14.1. UN number					
	The product is not classified as dangerous for carriage.				
14.2. UN proper shipping name					
	The product is not classified as dangerous for carriage.				
14.3. Transport hazard class(es)	14.3. Transport hazard class(es)				
	The product is not classified as dangerous for carriage.				
14.4. Packing group					
	The product is not classified as dangerous for carriage.				
14.5. Environmental hazards					
	The product is not classified as dangerous for carriage.				
14.6. Special precautions for use	er				
	The product is not classified as dangerous for carriage.				
14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code					

The product is not classified as dangerous for carriage.

SECTION 15: Regulatory information

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

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

15.2. Chemical safety assessment

No information available.

SECTION 16: Other information

Other information

Revision	This document differs from the previous version in the following areas:.
	1 - Description.
	1 - Product Use.
	7 - 7.3. Specific end use(s).
Data sources	Classification and Procedure used to derive the classification for mixtures according to Regulation

Revision 11 Revision date 2020-05-22

Other information	
	(EC) No. 1272/2008:. Skin Sens. 1: H317 - May cause an allergic skin reaction Calculation Method. Eye Irrit. 2: H319 - Causes serious eye irritation Calculation Method.
Text of Hazard Statements in	Eye Irrit. 2: H319 - Causes serious eye irritation.
Section 3	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Acute Tox. 4: H332 - Harmful if inhaled.
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.