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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name

: Sika[®] Frostschutz

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

Product use : Special system

1.3 Details of the supplier of the safety data sheet

Company name of supplier	:	Sika Schweiz AG
		Tüffenwies 16
		8048 Zürich
Telephone	:	+41 58 436 40 40
Telefax	:	-
E-mail address of person	:	EHS@ch.sika.com
responsible for the SDS		

1.4 Emergency telephone number

Tox Info Suisse CH-8028 Zurich +41(0)44 251 51 51 / Speed calling: 145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)Acute toxicity, Category 4H302: Harmful if swallowed.Serious eye damage, Category 1H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Labeling (REGULATION (EC) NO 12/2/2008)				
Hazard pictograms	:	E	!>	
Signal word	:	Danger		
Hazard statements	:	H302 H318	Harmful if swallowed. Causes serious eye damage.	
Precautionary statements	:	Prevention:		

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	P264 P270 P280	Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/ face protection.
	_	
	Response:	
	P301 + P312 + I	P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
	P305 + P351 + I	P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove con- tact lenses, if present and easy to do. Con- tinue rinsing. Immediately call a POISON CENTER/ doctor.
	Disposal:	
	P501	Dispose of contents/ container to an ap- proved waste disposal plant.

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Hazardous components which must be listed on the label:

nitric acid, ammonium calcium salt

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		
nitric acid, ammonium calcium salt	15245-12-2	Acute Tox. 4; H302	>= 25 - < 40
	239-289-5	Eye Dam. 1; H318	
	01-2119493947-16-		
	XXXX	Acute toxicity esti-	
		mate	
		Acute oral toxicity:	
		301,04 mg/kg	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

	General advice :	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.
	If inhaled :	Move to fresh air. Consult a physician after significant exposure.
	In case of skin contact :	Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician.
	In case of eye contact :	Small amounts splashed into eyes can cause irreversible tis- sue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Keep eye wide open while rinsing.
	If swallowed :	Do not induce vomiting without medical advice. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person.
4.2	Most important symptoms and	effects, both acute and delayed
	Symptoms :	Gastrointestinal discomfort Excessive lachrymation See Section 11 for more detailed information on health effects



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	and symptoms.	
Risks	: Harmful if swallowed. Causes serious eye damage.	
	irritant effects	
4.3 Indication of any immediate r	edical attention and special treatmen	t needed
Treatment	: Treat symptomatically.	
SECTION 5: Firefighting meas	ires	
5.1 Extinguishing media		
Suitable extinguishing media	 In case of fire, use water/water spray ide/sand/foam/alcohol resistant foam extinction. 	
5.2 Special hazards arising from	he substance or mixture	
Hazardous combustion prod- ucts	: No hazardous combustion products a	are known
5.3 Advice for firefighters		
Special protective equipment for firefighters	: In the event of fire, wear self-contain	ed breathing apparatus.
Further information	: Standard procedure for chemical fire	S.
SECTION 6: Accidental releas	measures	
6.1 Personal precautions, protec	ve equipment and emergency proced	lures
Personal precautions	: Use personal protective equipment. Deny access to unprotected persons	
6.2 Environmental precautions		
Environmental precautions	 Try to prevent the material from enter courses. If the product contaminates rivers an respective authorities. No special environmental precaution 	d lakes or drains inform
6.3 Methods and material for cor	ainment and cleaning up	
Methods for cleaning up	: Soak up with inert absorbent materia acid binder, universal binder, sawdus Keep in suitable, closed containers fo	st).

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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling	9	
Advice on safe handling	:	Avoid exceeding the given occupational exposure limits (see section 8). Do not get in eyes, on skin, or on clothing. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the ap- plication area. Follow standard hygiene measures when handling chemical products
Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Hygiene measures	:	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
7.2 Conditions for safe storage, i	incl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully re-

place. Containers which are opened must be carefully re
sealed and kept upright to prevent leakage. Store in accord-
ance with local regulations.

Further information on stor- : No decomposition if stored and applied as directed. age stability

7.3 Specific end use(s)

Specific use(s)

: Consult most current local Product Data Sheet prior to any use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components	CAS-No.	21 1	Control parame- ters *	Basis *
Contains no substances with occupational exposure limit values.				

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
nitric acid, ammonium calcium salt	Workers	Skin contact		13,9 mg/m3
	Workers	Inhalation		24,5 mg/m3

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Predicted No Effect Co	oncentration (P	NEC) according to	Regulation (EC) No.	1907/2006:	
	Consumers	Inhalation		6,3 mg/m3	
	Consumers	Ingestion		8,33 mg/m3	

Substance name	Environmental Compartment	Value
nitric acid, ammonium calcium salt	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l

8.2 Exposure controls

F

Engineering measures

Maintain air concentrations below occupational exposure standards. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection	:	Safety glasses with side-shields conforming to EN166 Eye wash bottle with pure water				
Hand protection	:	Chemical-resistant, impervious gloves complying with an ap- proved standard must be worn at all times when handling chemical products. Reference number EN 374. Follow manu- facturer specifications.				
		Suitable for short time use or protection against splashes: Butyl rubber/nitrile rubber gloves (> 0,1 mm) Contaminated gloves should be removed. Suitable for permanent exposure: Viton gloves (0.4 mm), breakthrough time >30 min.				
Skin and body protection	:	Protective clothing (e.g. Safety shoes acc. to EN ISO 20345, long-sleeved working clothing, long trousers). Rubber aprons and protective boots are additionaly recommended for mixing and stirring work.				
Respiratory protection	:	No special measures required.				
Environmental exposure controls						
General advice	:	Try to prevent the material from entering drains or water courses. If the product contaminates rivers and lakes or drains inform respective authorities. No special environmental precautions required.				

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: colourless
Odour	: odourless

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Melting point/range / Freezing point	:	No data available
Boiling point/boiling range	:	100 °C
Flammability (solid, gas)	:	No data available
linner/lewer flommobility or	• · · ·	lecive limite
Upper/lower flammability or Upper explosion limit / Up- per flammability limit	-	
Lower explosion limit / Lower flammability limit	:	No data available
Flash point	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
рН	:	ca. 7 (20 °C)
		Concentration: 100 %
Viscosity Viscosity, kinematic	:	Concentration: 100 %
Viscosity, kinematic	:	
•	:	
Viscosity, kinematic Solubility(ies)	:	> 7 mm2/s (40 °C)
Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n-	::	> 7 mm2/s (40 °C) No data available No data available
Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water	:	> 7 mm2/s (40 °C) No data available No data available
Viscosity, kinematic Solubility(ies) Water solubility Partition coefficient: n- octanol/water Vapour pressure	::	> 7 mm2/s (40 °C) No data available No data available 23 hPa

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9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

The product is chemically stable.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazards to be specially mentioned.

10.4 Conditions to avoid

Conditions to avoid : No data available

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful if swallowed.		
Components:		
nitric acid, ammonium calci	um	salt:
Acute oral toxicity	:	LD50 Oral (Rat): > 301 mg/kg
		Acute toxicity estimate: 301,04 mg/kg Method: Calculation method
Acute dermal toxicity	:	LD50 Dermal (Rat): > 2.001 mg/kg
Skin corrosion/irritation Not classified due to lack of da	ata.	
Serious eye damage/eye irri	tati	ion

Causes serious eye damage.

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Respiratory or skin sensitisation

Skin sensitisation

Not classified due to lack of data.

Respiratory sensitisation

Not classified due to lack of data.

Germ cell mutagenicity

Not classified due to lack of data.

Carcinogenicity

Not classified due to lack of data.

Reproductive toxicity

Not classified due to lack of data.

STOT - single exposure

Not classified due to lack of data.

STOT - repeated exposure

Not classified due to lack of data.

Aspiration toxicity

Not classified due to lack of data.

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity

Components:		
nitric acid, ammonium calci	um	salt:
Toxicity to fish	:	LC50 (Fish): 447 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h

12.2 Persistence and degradability

No data available

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12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment

: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Endocrine disrupting properties

Product:

Assessment	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

Product:		
Additional ecological infor- mation	:	There is no data available for this product.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Waste code Switzerland VeVA/LVA	: 16 10 01 -
Contaminated packaging	15 01 10 [S] packaging containing residues of or contaminat- ed by dangerous substances
Country CH 00000019808	10 /

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SECTION 14: Transport information

14.1 UN number or ID number

ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.2 UN proper shipping name		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.3 Transport hazard class(es)		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
ΙΑΤΑ	:	Not regulated as a dangerous good
14.4 Packing group		
ADR	:	Not regulated as a dangerous good
IMDG	:	Not regulated as a dangerous good
IATA (Cargo)	:	Not regulated as a dangerous good
IATA (Passenger)	:	Not regulated as a dangerous good
14.5 Environmental hazards		

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1	Safety, health and environmental regulations/legis	slation	specific for the substar	nce or mixture
	International Chemical Weapons Convention (CWC) Schedules of Toxic Chemicals and Precursors	:	Not applicable	

REACH Information:	All substances contained in our Products are
	 registered by our upstream suppliers, and/or
	 registered by us, and/or

- excluded from the regulation, and/or

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- exempted from the registration.

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REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the fol- lowing entries should be considered: Number on list 3
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	None of the components are listed (=> 0.1 %).
REACH - List of substances subject to authorisation (Annex XIV)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
Regulation (EU) 2019/1021 on persistent organic pollu- tants (recast)	:	Not applicable
PIC Ordinance, ChemPICO (814.82)	:	Not applicable
Chemical Risk Reduction Ordinance (ORRChem, SR 814.81)	:	See respective Annex to the Chemi- cal Risk Reduction Ordinance (ORRChem, 814.81) for Conditions of Restriction.
Regulation (EU) 2019/1148 on the marketing and use of explosives precursors		
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappear- ances and thefts should be reported to the relevant na- tional contact point.	:	nitric acid, ammonium calcium salt (ANNEX II)
Seveso III: Directive 2012/18/EU of the European Parliam jor-accident hazards involving dangerous substances. Not applicable	ient	and of the Council on the control of ma-

Volatile organic compounds	:	Law on the incentive tax for volatile organic compounds (VOCV) no VOC duties
		Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Not applicable

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

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SECTION 16: Other information

Full text of H-Statements					
H302	:	Harmful if swallowed.			
H318	:	Causes serious eye damage.			
Full text of other abbreviations					
Acute Tox.	:	Acute toxicity			
Eye Dam.	:	Serious eye damage			
ADR	:	European Agreement concerning the International Carriage of Dangerous Goods by Road			
CAS		Chemical Abstracts Service			
DNEL	:	Derived no-effect level			
EC50	:	Half maximal effective concentration			
GHS	:	Globally Harmonized System			
IATA	:	International Air Transport Association			
IMDG	:	International Maritime Code for Dangerous Goods			
LD50	:	Median lethal dosis (the amount of a material, given all at			
	•	once, which causes the death of 50% (one half) of a group of test animals)			
LC50	:	Median lethal concentration (concentrations of the chemical in air that kills 50% of the test animals during the observation period)			
MARPOL		International Convention for the Prevention of Pollution from			
	•	Ships, 1973 as modified by the Protocol of 1978			
OEL		Occupational Exposure Limit			
PBT	÷	Persistent, bioaccumulative and toxic			
PNEC	:	Predicted no effect concentration			
REACH	:	Regulation (EC) No 1907/2006 of the European Parliament			
SVHC		and of the Council of 18 December 2006 concerning the Reg- istration, Evaluation, Authorisation and Restriction of Chemi- cals (REACH), establishing a European Chemicals Agency Substances of Very High Concern			
vPvB	:	Very persistent and very bioaccumulative			
	•	very persistent and very bloaccumulative			

Further information

Classification of the mixtu	Classification procedure:	
Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method

The information contained in this Safety Data Sheet corresponds to our level of knowledge at the time of publication. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the product data sheet prior to any use and processing.

Changes as compared to previous version !

CH / EN

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