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SECTION 1: Identification of	the substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name	: Basfoliar Fruit SP 7-8-34
1.2 Relevant identified uses of	the substance or mixture and uses advised against
Use of the Sub- stance/Mixture	: Fertilizer
1.3 Details of the supplier of th	e safety data sheet
Company	: COMPO EXPERT GmbH Kroegerweg 10 D-48155 Münster
Telephone	: +49 (0) 251 29 79 81 – 000
Telefax	: +49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	: info@compo-expert.com

1.4 Emergency telephone number

Quality / Safety / Environment Telephone:+49 (0) 2151 - 579 - 0

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) Skin irritation C

Skin irritation, Category 2	H315: Causes skin irritation.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting ef- fects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms		>
Signal word	: Danger	
Hazard statements	: H315	Causes skin

irritation.



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	H318 H412	Causes serious eye damage. Harmful to aquatic life with long lasting ef- fects.
Precautionary statements	: P280	Wear protective gloves/ eye protection/ face protection.
	Response:	
	P305 + P351	+ P338 IF IN EYES: Rinse cautiously with wa- ter for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER or doctor/ physician.
	Disposal:	
	P501	Dispose of contents / container in accord- ance with local / regional / national / interna- tional regulations.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature

: Mixture of nutrient salts based on various inorganic salts. trace elements as Metal chelate

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
potassium nitrate	7757-79-1 231-818-8 01-2119488224-35- XXXX	Ox. Sol. 3; H272	>= 10 - <= 40
zinc sulphate	7733-02-0 231-793-3 01-2119474684-27- XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - <= 0,24
manganese sulphate	7785-87-7 232-089-9 01-2119456624-35- XXXX	STOT RE 2; H373 Aquatic Chronic 2; H411	>= 0,5 - <= 5
potassium hydrogensulphate	7646-93-7 231-594-1	Skin Corr. 1B; H314 STOT SE 3; H335	>= 0,5 - <= 3

For explanation of abbreviations see section 16.



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SECTION 4: First aid measures

SECTION 4. First alu measures	
4.1 Description of first aid measu	res
General advice	: Take off immediately all contaminated clothing.
If inhaled	 Keep patient calm, remove to fresh air, seek medical attention. If unconscious place in recovery position and seek medical advice.
In case of skin contact	: Wash thoroughly with soap and water.
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If swallowed	: Clean mouth with water and drink afterwards plenty of water.
4.2 Most important symptoms and	-
Symptoms	: No information available.
4.3 Indication of any immediate m Treatment	edical attention and special treatment needed : No information available.
SECTION 5: Firefighting meas	ures
5.1 Extinguishing media	
Suitable extinguishing media	: Water Water spray
5.2 Special hazards arising from	he substance or mixture
Specific hazards during fire- fighting	: In the event of fire and/or explosion do not breathe fumes.
5.3 Advice for firefighters	
Special protective equipment for firefighters	: In the event of fire, wear self-contained breathing apparatus.
Further information	: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Avoid contact with eyes.



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6.2 Environmental precautions Environmental precautions : Do not empty into drains. Retain and dispose of contaminated wash water. 6.3 Methods and material for containment and cleaning up : Use mechanical handling equipment. Methods for cleaning up 6.4 Reference to other sections none **SECTION 7: Handling and storage** 7.1 Precautions for safe handling Advice on safe handling : No special measures necessary if stored and handled as prescribed. Advice on protection against : No special precautions required. fire and explosion Hygiene measures : At the end of the shift the skin should be cleaned and skincare agents applied. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Keep away from heat. Keep away from sources of ignition areas and containers No smoking. Keep away from direct sunlight. Keep away from combustible material. Protect from contamination. Protect against humidity (product is hygroscopic and tends to cake or disintegrate) : 11, Combustible Solids Storage class (TRGS 510)

7.3 Specific end use(s)

Specific use(s) : Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
manganese sul-		(Inhalable frac-	0,5 mg/m3	DE TRGS
phate		tion)	-	900
Further information	Senate comm	ission for the review	of compounds at the work p	lace dangerous
	for the health	(MAK-commission).,	The threshold value is base	d on the ele-
	ment content	of the corresponding	metal., When there is comp	liance with the
	OEL and biolo	gical tolerance value	es, there is no risk of harmin	g the unborn
	child			



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none		0,5 mg/	/m3	
Mangansulfat	7785-87-7, 7785-87-7	manganese: 20 µg/l (Blood)	Immediately after exposition or after working hours, In case of long-term exposition: after more than one shift	TRGS 903

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

Substance name	End Use	Exposure routes	Potential health ef-	Value
		•	fects	
potassium nitrate	Workers	Inhalation	Systemic effects	36,7 mg/m3
	Workers	Skin contact	Systemic effects	20,8 mg/kg
Remarks:	Exposure time: 1 d			
	Consumers	Ingestion	Systemic effects	12,5 mg/kg
Remarks:	Exposure time:	1 d		
	Consumers	Skin contact	Systemic effects	12,5 mg/kg
Remarks:	Exposure time:	1 d		
	Consumers	Inhalation	Systemic effects	10,9 mg/m3

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
potassium nitrate	Fresh water	0,45 mg/l
	Marine water	0,045 mg/l
	Ceiling Limit Value	4,5 mg/l
	Sewage treatment plant	18 mg/l

8.2 Exposure controls

Personal protective equipment

Hand protection Remarks	: Protective gloves The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
Respiratory protection	: Breathing apparatus only if aerosol or dust is formed.
Environmental exposure contr General advice	rols : Do not empty into drains.



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	Retain and dispose of contaminated wash water.
SECTION 9: Physical and che	mical properties
9.1 Information on basic physica	I and chemical properties
Appearance	: crystalline
Colour	: light grey
Odour	: slightly pungent
Odour Threshold	: No data available
рН	: ca. 5, Concentration: 100 g/l (20 °C)
Melting point/range	: 155 °C
Boiling point/boiling range	: Not applicable
Flash point	: No data available
·	
Evaporation rate	: Not applicable
Flammability (solid, gas)	: not readily ignited
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density	: Not applicable
Relative density	: No data available
Bulk density	: ca. 1.100 kg/m³
Solubility(ies) Water solubility	: soluble
Partition coefficient: n- octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: ca. 155 °C To avoid thermal decomposition, do not overheat.
Viscosity Viscosity, dynamic	: Not applicable



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Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance
9.2 Other information	
No data available	
SECTION 10: Stability and	reactivity
10.1 Reactivity	
No decomposition if stored	and applied as directed.
10.2 Chemical stability	
No decomposition if stored	and applied as directed
10.3 Possibility of hazardous	
Hazardous reactions	: Hazardous decomposition products formed under fire condi-
Hazardous reactions	tions.
10.4 Conditions to avoid	
Conditions to avoid	: To avoid thermal decomposition, do not overheat.
10.5 Incompatible materials	
Materials to avoid	: Strong oxidizing agents
10.6 Hazardous decompositio	n products
Hazardous decomposition	: Nitrose gases
products	ammonia
SECTION 11: Toxicological	information
11.1 Information on toxicologi	cal effects
Acute toxicity	
Product:	
Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg
<u>Components:</u>	
potassium nitrate:	
Acute oral toxicity	· 1 D50 (Rat): > 2 000 mg/kg

zinc sulphate: Acute oral toxicity	: LD50 (Rat): 862 - 4.429 mg/kg
Acute dermal toxicity	: LD50 (Rat): > 5.000 mg/kg
Acute inhalation toxicity	: LC50 (Rat): 0,527 mg/l
Acute oral toxicity	: LD50 (Rat): > 2.000 mg/kg



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Acute dermal toxicity	: LD50 Dermal (Rat): > 2.000 mg/kg
manganese sulphate: Acute oral toxicity	: LD50 (Rat): 2.150 mg/kg
potassium hydrogens Acute oral toxicity	ulphate: : LD50 Oral (Rat): 2.340 mg/kg

Skin corrosion/irritation

Product:

Remarks: May irritate skin.

Components:

potassium nitrate: Species: Rabbit Result: No skin irritation

zinc sulphate:

Species: Rabbit Assessment: Irritating to skin.

Serious eye damage/eye irritation

Product:

Remarks: May irritate eyes.

Components:

potassium nitrate: Species: Rabbit Result: No eye irritation

zinc sulphate:

Species: Rabbit Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation

Product: Result: non-sensitizing

<u>Components:</u> potassium nitrate: Result: non-sensitizing



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	Germ cell mutagenicity			
	Product: Genotoxicity in vitro	:	Remarks: Contains no hazardous ingredients accor GHS	ding to
	<u>Components:</u> potassium nitrate: Genotoxicity in vitro	:	Remarks: No data available	
	Carcinogenicity			
	Product: Remarks: Contains no ingredie	ent	listed as a carcinogen	
	<u>Components:</u> potassium nitrate: Remarks: Did not show carcino	oge	enic effects in animal experiments.	
	Reproductive toxicity			
	Product: Effects on fertility	:	Remarks: No toxicity to reproduction	
	Effects on foetal develop- ment	:	Remarks: Contains no ingredient listed as toxic to r	eproduc-
	Components: potassium nitrate: Effects on fertility	:	Remarks: No toxicity to reproduction	
	Effects on foetal develop- ment	:	Remarks: Did not show teratogenic effects in anima ments.	al experi-
	STOT - single exposure			

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

Components:

potassium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.



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STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Components:

potassium nitrate:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

potassium nitrate: Species: Rat NOAEL: >= 1.500 mg/kg Exposure time: 1 d

Further information

Product:

Remarks: The product was not tested. The statement was derived from products of similar structure and composition.

SECTION 12: Ecological information

12.1 Toxicity

Components:

potassium nitrate:	
Toxicity to fish	: LC50 (Fish): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 490 mg/l Exposure time: 48 h
Toxicity to algae	: LC50 : >= 1.700 mg/l Exposure time: 10 d
zinc sulphate:	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): 0,43 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 1,86 mg/l Exposure time: 48 h



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Toxicity to algae	EC50 (Scenedesmus quadricauda (Greer Exposure time: 120 h	n algae)): 0,52 mg/l
Toxicity to bacteria	EC50 (Bacteria): 22,75 mg/l Exposure time: 0,5 h	
manganese sulphate:		
•	EC50 (Daphnia magna (Water flea)): 30 r	ng/l
potassium hydrogensulphat		
Toxicity to fish	LC50 (Leuciscus idus (Golden orfe)): 3.50)0 mg/l
12.2 Persistence and degradabili		
<u>Components:</u> potassium nitrate: Biodegradability	Remarks: The methods for determining th dability are not applicable to inorganic sul	
12.3 Bioaccumulative potential		
Components: potassium nitrate: Bioaccumulation	Remarks: Does not bioaccumulate.	
12.4 Mobility in soil		
<u>Product:</u> Mobility	Remarks: No data available	
Components:		
potassium nitrate: Mobility	Remarks: No data available	
12.5 Results of PBT and vPvB as	sment	
Product:		
Assessment	Remarks: No data available	
Components: potassium nitrate: Assessment	This substance is not considered to be pe lating and toxic (PBT) This substance is very persistent and very bioaccumulating	not considered to be



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12.6 Other adverse effects	
Product: Additional ecological infor- mation	: water endangering Do not flush into surface water or sanitary sewer system.
SECTION 13: Disposal consid	derations
13.1 Waste treatment methods	
Product	: Check if agriculture use is possible. Contact manufacturer.
Contaminated packaging	: Contaminated packaging should be emptied as far as possi- ble; then it can be passed on for recycling after being thor- oughly cleaned.
SECTION 14: Transport infor	mation
14.1 UN number	
Not regulated as a dangerous	s good
14.2 UN proper shipping name	
Not regulated as a dangerous	s good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

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

Remarks : Not relevant

SECTION 15: Regulatory information

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

Water contaminating class : WGK 2 water endangering (Germany)

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

SECTION 16: Other information



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Full text of H-Statements

H272	: May intensify fire; oxidizer.	
	: Harmful if swallowed.	
	Causes severe skin burns and eye damage.	
	: Causes serious eye damage.	
	: May cause respiratory irritation.	
H373	: May cause damage to organs through prolonged or repeated	
	exposure.	
H400	: Very toxic to aquatic life.	
H410	: Very toxic to aquatic life with long lasting effects.	
H411	: Toxic to aquatic life with long lasting effects.	
Full text of other abbreviations		
Acute Tox.	: Acute toxicity	
	· A outo o quetto tovicity	

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA -Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of



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Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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 process, unless specified in the text.

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