



Version	Revision Date:	SDS Number:	Date of last issue: 04.09.2024
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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### **1.1 Product identifier**

Trade name	:	Hakaphos® Naranja 15-5-30
Unique Formula Identifier (UFI)	:	6AW5-S0DX-R00V-32GD

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

Use of the Sub-	:	Fertiliser
stance/Mixture		

# 1.3 Details of the supplier of the safety data sheet

Company	:	COMPO EXPERT GmbH Krögerweg 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

GBK GmbH - Global Regulatory Compliance - 24h Telephone:+49 (0) 6132 - 84463

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Classifica	ation (REGl	JLATION (EC	C) No 1272/2008)		
<u> </u>		•		• •	

H272: May intensify fire; oxidizer. Oxidizing solids, Category 2

# 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Danger 1

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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F	Hazard	statements	:	H272	May intensify fire; oxidizer.
F	Precaut	ionary statements	:	Prevention	:
				P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
				P220	Keep away from clothing and other combustible materials.
				P280	Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.
				Disposal:	
				P501	Dispose of contents/ container to an approved waste disposal plant.
F	urther	information	:		azardous Substances" legislation ( Gefahrstoffver- opendix I, No. 5 (Ammonium Nitrate group B I)

# 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.

# **SECTION 3: Composition/information on ingredients**

### 3.2 Mixtures

Chemical nature	: Inorganic fertilise
Chemical hature	. inorganic ien

### Components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Index-No.		
	Registration number		
ammonium nitrate	6484-52-2	Ox. Sol. 3; H272	>= 1 - < 10
	229-347-8	Eye Irrit. 2; H319	
	01-2119490981-27-	-	
	0050		

For explanation of abbreviations see section 16.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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# **SECTION 4: First aid measures**

4.1 Description of first aid me	easures
General advice	<ul> <li>Move out of dangerous area.</li> <li>Consult a physician.</li> <li>Show this safety data sheet to the doctor in attendance.</li> <li>Do not leave the victim unattended.</li> </ul>
Protection of first-aiders	<ul> <li>First Aid responders should pay attention to self-protection and use the recommended protective clothing If potential for exposure exists refer to Section 8 for specific personal protective equipment.</li> </ul>
If inhaled	: If breathed in, move person into fresh air. If symptoms persist, call a physician.
In case of skin contact	: Wash off immediately with plenty of water.
In case of eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If eye irritation persists, consult a specialist.
If swallowed	: Clean mouth with water and drink afterwards plenty of water. Obtain medical attention.
4.2 Most important symptom	s and effects, both acute and delayed
Symptoms	: Ingestion may provoke the following symptoms: Methaemoglobinemia
4.3 Indication of any immedia	ate medical attention and special treatment needed
Treatment	: Treat symptomatically.

5.1 Extinguishing media	
Suitable extinguishing media	: Water Dry chemical Water mist Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment.
Unsuitable extinguishing media	: High volume water jet Carbon dioxide (CO2) Foam Sand

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# 5.2 Special hazards arising from the substance or mixture

	Specific hazards during fire- fighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
	Hazardous combustion prod- ucts	:	Nitrogen oxides (NOx) Oxides of phosphorus Sulphur oxides
: 2	Advice for firefighters		

# **5.3 Advice for firefighters**

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if nec- essary.
Further information	:	Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. The product itself does not burn.

# **SECTION 6: Accidental release measures**

### 6.1 Personal precautions, protective equipment and emergency procedures

:	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before re-use. Avoid breathing dust. For personal protection see section 8.
	For disposal considerations see section 13.
	:

### 6.2 Environmental precautions

Environmental precautions	:	Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.			
		If the product contaminates rivers and lakes or drains inform respective authorities.			

# 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

# **SECTION 7: Handling and storage**

# 7.1 Precautions for safe handling

Advice on safe handling	:	Avoid contact with skin and eyes.
_		Wear personal protective equipment.
		Keep away from combustible material.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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			Smoking, eating plication area.	heat and sources of ignition. and drinking should be prohibited in the ap- water in accordance with local and national		
	Advice on protection against fire and explosion		No special preca	utions required.		
Hygi	Hygiene measures		Keep away from food, drink and animal feedingstuffs. Wash hands before eating, drinking, or smoking. Wash hands before breaks and at the end of workday.			
7.2 Cond	litions for safe storage,	inc	luding any incom	patibilities		
	ner information on stor- conditions	:		sources of ignition - No smoking. Keep away ht. Protect from moisture. Protect from con-		
Advi	ce on common storage	:	Keep away from Keep away from			
Stor	age class (TRGS 510)	:	5.1C			
	ner information on stor- stability	:	Protect from fros	t, heat and sunlight.		
7.3 Spec	ific end use(s)					
Spee	cific use(s)	:	Not relevant			

# **SECTION 8: Exposure controls/personal protection**

### 8.1 Control parameters

## **Occupational Exposure Limits**

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 ef- fects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m3
	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic	12,8 mg/kg

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878



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1				effects		
		Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg	
	ammonium nitrate	Workers	Inhalation	Long-term systemic effects	36 mg/m3	
		Workers	Skin contact	Long-term systemic effects	5,12 mg/kg bw/day	
		Consumers	Ingestion	Long-term systemic effects	2,56 mg/kg bw/day	
		Consumers	Inhalation	Long-term systemic effects	8,9 mg/m3	
		Consumers	Skin contact, Ingestion	Long-term systemic effects	2,56 mg/kg bw/day	

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

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg
ammonium nitrate	ium nitrate Sewage treatment plant 18 mg/l	

### 8.2 Exposure controls

<b>Personal protective equipme</b> Eye/face protection	ent :	Safety glasses with side-shields conforming to EN166		
Hand protection Material : Directive :		Gloves Equipment should conform to EN 374		
Remarks	:	As the product is a mixture of several substances, the dura- bility of the glove materials cannot be calculated in advance and has to be tested before use.		
Skin and body protection	:	Long sleeved clothing		
Respiratory protection	:	Respirator must be worn if exposed to dust. In the case of dust or aerosol formation use respirator with an approved filter. Equipment should conform to EN 14387		
Filter type	:	Filter type P		
Protective measures	:	Handle in accordance with good industrial hygiene and safety practice. Wash contaminated clothing before re-use.		

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Physical state		crystalline
Colour	:	orange
Odour	:	No information available.
Melting point/range	:	not determined
Boiling point/boiling range	:	not determined
Flammability	:	Will not burn
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Flash point	:	Not applicable
Auto-ignition temperature	:	does not ignite
Decomposition temperature	:	> 130 °C
рН	:	4,1 (20 °C) Concentration: 100 g/l
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n- octanol/water	:	Not applicable

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Dens	ity	: 1,24 g/ml (20	°C)
• • • • • • •	<b>information</b> osives	: Not explosive	)
Oxidi	zing properties	: The substanc category 2.	ce or mixture is classified as oxidizing with the
Self-i	gnition	: not auto-flam	mable

# **SECTION 10: Stability and reactivity**

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions	:	None reasonably foreseeable. Heating can release hazardous gases. Potential for exothermic hazard
10.4 Conditions to avoid		
Conditions to avoid	:	Hot surface(s) Direct sources of heat.

#### 10.5 Incompatible materials

Materials to avoid	: Strong bases
	Organic materials
	Powdered metals

# **10.6 Hazardous decomposition products**

Nitrogen oxides (NOx) Oxides of phosphorus Sulphur oxides ammonia

### **SECTION 11: Toxicological information**

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

#### Acute toxicity

Based on available data, the classification criteria are not met.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878





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<u>Com</u>	oonents:			
amme	onium nitrate:			
Acute	oral toxicity	:	Assessment: T icity	he substance or mixture has no acute oral to
Acute	inhalation toxicity	:	Assessment: T tion toxicity	he substance or mixture has no acute inhala
Acute	dermal toxicity	:	Assessment: T toxicity	he substance or mixture has no acute derma
Skin	corrosion/irritation			
Based	d on available data, th	he class	sification criteria	are not met.
<u>Com</u>	oonents:			
	onium nitrate:			
amme				
Asses <b>Serio</b> Baseo	ssment <b>us eye damage/eye</b> d on available data, tł			
Asses Serio Baseo <u>Comp</u>	ssment <b>us eye damage/eye</b> d on available data, th <b>conents:</b>	irritatio	on	
Asses Serio Basec Comp amme	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate:	irritatio	on sification criteria	
Asses Serio Basec Comp ammo Speci	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate:	irritatio	on	
Asses Serio Basec Comp ammo Speci Expos Asses	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment	irritatio	on sification criteria Rabbit 24 h Irritating to eye	are not met.
Asses Serio Based Comp ammo Speci Expos	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment	irritatio	on sification criteria Rabbit 24 h	are not met.
Asses Serio Basec Comp amme Speci Expos Asses Metho	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment	irritation he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu	are not met.
Asses Serio Basec Comp amme Speci Expos Asses Metho Resp	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od	irritation he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu	are not met.
Asses Serio Basec Comp amme Speci Expos Asses Metho Resp Skin	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od iratory or skin sens	irritatio	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n	are not met. s. uideline 405
Asses Serio Basec Comp amme Speci Expos Asses Metho Resp Skin Basec Resp	essment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od iratory or skin sens sensitisation d on available data, th iratory sensitisatior	irritatio he class itisatio he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n	are not met. s. uideline 405
Asses Serio Basec Comp amme Speci Expos Asses Metho Resp Skin Basec Resp	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od iratory or skin sens sensitisation d on available data, th	irritatio he class itisatio he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n	are not met. s. uideline 405
Asses Serio Basec Comp Speci Expos Asses Metho Resp Skin Basec Resp Basec	essment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od iratory or skin sens sensitisation d on available data, th iratory sensitisatior	irritatio he class itisatio he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n	are not met. s. uideline 405
Asses Serio Basec Comp Speci Expos Asses Metho Resp Basec Resp Basec Comp	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time asment od iratory or skin sens sensitisation d on available data, th iratory sensitisatior d on available data, th	irritatio he class itisatio he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n	are not met. s. uideline 405
Asses Serio Basec Comp Asses Asses Metho Resp Basec Comp amme	ssment us eye damage/eye d on available data, th <u>conents:</u> onium nitrate: es sure time ssment od iratory or skin sens sensitisation d on available data, th iratory sensitisatior d on available data, th conents:	irritatio he class itisatio he class	on sification criteria Rabbit 24 h Irritating to eye OECD Test Gu n sification criteria	are not met. s. uideline 405

Based on available data, the classification criteria are not met.

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<u>Com</u> r	oonents:			
	onium nitrate: toxicity in vitro	:	Method: OECI Result: negativ	) Test Guideline 471 e
Germ sessn	cell mutagenicity- As- nent	:	Weight of evid cell mutagen.	ence does not support classification as a germ
Based	<b>nogenicity</b> d on available data, the ponents:	clas	sification criteria	are not met.
ammo	onium nitrate:			
Carcir ment	nogenicity - Assess-	:	Not classifiable	e as a human carcinogen.
Based	oductive toxicity d on available data, the conents:	clas	sification criteria	are not met.
	onium nitrate: oductive toxicity - As- nent	:	No toxicity to r	eproduction
			No effects on o	or via lactation
Based	<b>- single exposure</b> d on available data, the conents:	clas	sification criteria	are not met.
	onium nitrate: ssment	:		or mixture is not classified as specific target single exposure.
	<b>- repeated exposure</b> d on available data, the	clas	sification criteria	are not met.
	oonents:			
ammo	onium nitrate:			

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### **Repeated dose toxicity**

# **Components:**

ammonium nitrate: Species NOAEL Application Route Exposure time	: Rat : > 1.500 mg/kg : Oral : 28 d
Species NOAEL Application Route Exposure time Method	: Rat : = 256 mg/kg : Oral : 52 w : OECD Test Guideline 453
Species NOAEL Application Route Exposure time Method	<ul> <li>Rat</li> <li>&gt;= 185 mg/kg</li> <li>inhalation (dust/mist/fume)</li> <li>2 w</li> <li>OECD Test Guideline 412</li> </ul>

### Aspiration toxicity

Based on available data, the classification criteria are not met.

:

# **Components:**

#### ammonium nitrate:

No aspiration toxicity classification

#### 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:

#### ammonium nitrate:

Toxicity to fish

: LC50 (Fish): > 100 mg/l Exposure time: 96 h

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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	Toxicity to daphnia and other aquatic invertebrates		:	EC50 (Daphnia (v Exposure time: 44	water flea)): 490 mg/l 8 h
	Toxicit plants	y to algae/aquatic	:	ErC50 (diatoms): Exposure time: 10	
	Toxicit	y to microorganisms	:	Exposure time: 3	sludge): 1.000 mg/l h est Guideline 209
12.2	Persis	tence and degradabil	ity		
	Comp	onents:			
		<b>nium nitrate:</b> Iradability	:		ethods for determining the biological degra- oplicable to inorganic substances.
12.3	Bioac	cumulative potential			
	Comp	onents:			
		<b>nium nitrate:</b> umulation	:	Remarks: Bioaccumulation is unlikely.	
	Partition coefficient: n- octanol/water		:	log Pow: -3,1	
12.4		<b>ty in soil</b> a available			
12.5	Result	ts of PBT and vPvB as	sse	ssment	
	<u>Produ</u>	<u>ct:</u>			
	Assess	sment	:	to be either persis	nixture contains no components considered stent, bioaccumulative and toxic (PBT), or nd very bioaccumulative (vPvB) at levels of
12.6	12.6 Endocrine disrupting properties				
	Produ				
	Assess		:	ered to have ende REACH Article 57	ixture does not contain components consid- ocrine disrupting properties according to 7(f) or Commission Delegated regulation or Commission Regulation (EU) 2018/605 at higher.

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	12.7 Other adverse effects No data available					
SECTION	N 13: Disposal consi	derations				
13.1 Wast	te treatment methods					
Produ	uct	Dispose of as h national regulat Waste codes sl	o surface water or sanitary sewer system. azardous waste in compliance with local and ions. hould be assigned by the user based on the which the product was used.			
Conta	aminated packaging	Empty containe	ng contents. Frs retain residue and can be dangerous. Frs should be taken to an approved waste han- cycling or disposal.			

# **SECTION 14: Transport information**

# 14.1 UN number or ID number

ADN	: UN 1477
ADR	: UN 1477
RID	: UN 1477
IMDG	: UN 1477
ΙΑΤΑ	: UN 1477

# 14.2 UN proper shipping name

ADN	:	NITRATES, INORGANIC, N.O.S.
ADR	:	NITRATES, INORGANIC, N.O.S.
RID	:	NITRATES, INORGANIC, N.O.S.
IMDG	:	NITRATES, INORGANIC, N.O.S.
ΙΑΤΑ	:	Nitrates, inorganic, n.o.s.

# 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 5.1	
ADR	: 5.1	
RID	: 5.1	
IMDG	: 5.1	
ΙΑΤΑ	: 5.1	

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14.4 Packi	ng group		
Classi	ng group fication Code d Identification Number	: II : O2 : 50 : 5.1	
Classit Hazaro Labels	ng group fication Code d Identification Number s I restriction code	: II : O2 : 50 : 5.1 : (E)	
Classi	ng group fication Code d Identification Number	: II : O2 : 50 : 5.1	
<b>IMDG</b> Packir Labels EmS C Rema	Code	: II : 5.1 : F-A, S-Q : Ammonium co	mpounds
Packir aircraf Packir	ng instruction (LQ) ng group	: 562 : Y544 : II : Oxidizer	
<b>IATA_</b> Packir ger air Packir	P (Passenger) ng instruction (passen- craft) ng instruction (LQ) ng group	: 558 : Y544 : II : Oxidizer	
14.5 Enviro	onmental hazards		
<b>ADN</b> Enviro	nmentally hazardous	: no	
<b>ADR</b> Enviro	nmentally hazardous	: no	
RID	nmentally hazardous	: no	
<b>IMDG</b> Marine	e pollutant	: no	



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### 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

### 14.7 Maritime transport in bulk according to IMO instruments

Regulatory basis	:	IMSBC Code
Remarks	:	Product is not allowed to be transported in bulk.

### **SECTION 15: Regulatory information**

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: 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	
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable	
Degulation (EU) 2010/1118 on the marketing and use of	ovalo	

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 disappearances and thefts should be reported to the relevant national contact point.

Seveso III: Directive 2012/18/l pean Parliament and of the Co control of major-accident haza dangerous substances.	ouncil on the	P8	OXIDIZING LIQUIDS AND SOLIDS	
Water hazard class (Germa-	: WGK 2 obvio	ously ha	azardous to water	

Classification according to AwSV, Annex 1 (5.2)

### Other regulations:

ny)

The product is subject to the supply restrictions of the Ordinance on the Prohibition of Chemicals.





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#### 15.2 Chemical safety assessment

Not relevant

#### **SECTION 16: Other information**

#### Full text of H-Statements

H272 H319					May intensify fire; oxidizer. Causes serious eye irritation.
		 		•	Causes senous eye initation.

#### Full text of other abbreviations

Eye Irrit.	:	Eye irritation
Ox. Sol.	:	Oxidizing solids

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways: ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; NZIOC - New Zealand Inventory of Chemicals: OECD - Organization for Economic Co-operation and Development: OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance: PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

# Further information

### Classification of the mixture:

# Classification procedure:

Ox. Sol. 2

H272

Based on product data or assessment



# Hakaphos® Naranja 15-5-30

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