according to Regulation (EC) No. 1907/2006

Hakaphos® Naranja 15-5-30



Version: 2.9 Revision Date:
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Date of first issue: 21.04.2016

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

1.1 Product identifier

Trade name : Hakaphos® Naranja 15-5-30

UFI : 6AW5-S0DX-R00V-32GD

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

Use of the : Fertiliser

Substance/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

Classification (REGULATION (EC) No 1272/2008)

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

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



according to Regulation (EC) No. 1907/2006

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Signal word : Danger

Hazard statements : H272 May intensify fire; oxidizer.

Precautionary 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.

Response:

P370 + P378 In case of fire: Use water spray to

extinguish.

Disposal:

P501 Dispose of contents/ container to an

approved waste disposal plant.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2 229-347-8	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 5 - < 10
	01-2119490981-27- XXXX		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

If inhaled : Move to fresh air.

Obtain medical attention.

If unconscious, place in recovery position and seek medical

advice.

In case of lung irritation, first treatment with dexametason

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aerosol (spray).

In case of skin contact : Wash off with soap and water.

: Rinse thoroughly with plenty of water for at least 15 minutes In case of eye contact

and consult a physician.

If swallowed : Clean mouth with water and drink afterwards plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Ingestion may provoke the following symptoms:

Methaemoglobinemia

Risks : Later control for pneumonia and lung oedema.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

There is no specific antidote available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Water

Unsuitable extinguishing

media

Foam Dry chemical

Carbon dioxide (CO2)

Sand

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Thermal decomposition can lead to release of irritating gases

and vapours.

Nitrogen oxides (NOx)

ammonia

5.3 Advice for firefighters

for firefighters

Special protective equipment : 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

according to Regulation (EC) No. 1907/2006

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6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Keep away from children.

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

Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13., See sections:

7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling Keep away from direct sunlight.

> Keep away from heat. Protect from contamination. Protect from moisture.

Advice on protection against

fire and explosion

: The product is not flammable. Keep away from heat and sources of ignition. Keep away from combustible materials.

Hygiene measures : Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep away from heat. Keep away from sources of ignition -No smoking. Keep away from combustible material. Protect from contamination. When stored loose do not mix with other

fertilizers. Protect from moisture.

Keep away from strong acids. Advice on common storage

Keep away from strong bases.

Keep away from combustible materials.

Storage class (TRGS 510) : 5.1B, Oxidizing hazardous materials

Dampness : Keep in a dry place.

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

according to Regulation (EC) No. 1907/2006

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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 nitrate	Sewage treatment plant	18 mg/l

8.2 Exposure controls

Personal protective equipment

Eye protection : In case of dust formation:

Safety glasses

Hand protection

Material : Gloves

Skin and body protection : No special protective equipment required.

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.

Respirator with a particle filter (EN 143)

P1 filter

according to Regulation (EC) No. 1907/2006

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Environmental exposure controls

General advice : Do not empty into drains.

Retain and dispose of contaminated wash water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : orange

Odour : odourless

Odour Threshold : No data available

pH : 4,1, Concentration: 100 g/l (20 °C)

Melting point/range : No data available

Boiling point/boiling range : Not applicable

Flash point : Not relevant

Evaporation rate : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : Not applicable

Relative vapour density : Not applicable

Relative density : No data available

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: Not applicable

Viscosity

Viscosity, dynamic : Not applicable

Viscosity, kinematic : Not applicable

according to Regulation (EC) No. 1907/2006

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Oxidizing properties : No data available

Particle characteristics

Particle Size Distribution : $D50 = 350 \mu m$

D50 Tolerance range = $280 \mu m - 420 \mu m$ Measurement technique: Sieve analysis

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

No decomposition if stored and applied as directed.

Decomposes on heating.

10.3 Possibility of hazardous reactions

Hazardous reactions : Evolution of ammonia under influence of alkalies.

10.4 Conditions to avoid

Conditions to avoid : Keep away from heat and sources of ignition.

10.5 Incompatible materials

Materials to avoid : Sulphur, chlorites, chloride, chlorates, Hypochlorites, acid or

alkaline reacting substances, flammable oxidizable

substances, nitrites, metallic salts, metallic powder, herbicide,

chlorinated hydrocarbons, organic compounds.

10.6 Hazardous decomposition products

Hazardous decomposition : Nitrogen oxides (NOx)

products ammonia

SECTION 11: Toxicological information

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

Acute toxicity

Product:

Acute oral toxicity : Remarks: Based on available data, the classification criteria

are not met.

according to Regulation (EC) No. 1907/2006

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Acute inhalation toxicity : Remarks: Based on available data, the classification criteria

are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria

are not met.

Components:

ammonium nitrate:

Acute oral toxicity : LD50 (Rat): > 2.950 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : > 88,8 mg/l

Method: No information available.

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

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

Components:

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

Serious eye damage/eye irritation

Product:

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

Components:

ammonium nitrate:

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritant

Respiratory or skin sensitisation

Product:

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

Components:

according to Regulation (EC) No. 1907/2006

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ammonium nitrate:

Result: Does not cause skin sensitisation.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: Based on available data, the classification criteria

are not met.

Components:

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Carcinogenicity

Product:

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

Components:

ammonium nitrate:

Species: Rat

Remarks: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility :

Remarks: No toxicity to reproduction

Effects on foetal development

: Remarks: Based on available data, the classification criteria

are not met.

Components:

ammonium nitrate:

Effects on fertility : Species: Rat

Remarks: Animal testing did not show any effects on fertility.

Effects on foetal : Species: Rat

development Remarks: Did not show teratogenic effects in animal

experiments.

according to Regulation (EC) No. 1907/2006

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STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

Repeated dose toxicity

Components:

ammonium nitrate:

Species: Rat

NOAEL: > 1.500 mg/kg Application Route: Oral Exposure time: 28 d

Species: Rat

NOAEL: = 256 mg/kg Application Route: Oral Exposure time: 52 w

Method: OECD Test Guideline 453

Species: Rat

NOAEL: >= 185 mg/kg

Application Route: by inhalation

Exposure time: 2 w

Method: Repeated Dose Inhalation Toxicity: 28-day or 14-day Study.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Experience with human exposure

Product:

General Information : Danger of methaemoglobin formation.

Further information

No data available

according to Regulation (EC) No. 1907/2006

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SECTION 12: Ecological information

12.1 Toxicity

Components:

ammonium nitrate:

Toxicity to fish : LC50 (Fish): > 100 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 490 mg/l

Exposure time: 48 h

LC50: 490 mg/l

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 1.700 mg/l

Exposure time: 10 d

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: No data available

Components:

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

: log Pow: -3,1

12.4 Mobility in soil

Product:

Mobility : Remarks: Groundwater contamination is unlikely.

Distribution among

environmental compartments

: Remarks: No data available

according to Regulation (EC) No. 1907/2006

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12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: No data available

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological : Information refers to the main component.

information Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Do not flush into surface water, groundwater or sanitary sewer

system.

Contaminated packaging : Contaminated packaging should be emptied as far as

possible; then it can be passed on for recycling after being

thoroughly cleaned.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : UN 1477
ADR : UN 1477
RID : UN 1477
IMDG : UN 1477
IATA : 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.

IATA : Nitrates, inorganic, n.o.s.

according to Regulation (EC) No. 1907/2006

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14.3 Transport hazard class(es)

ADN : 5.1
ADR : 5.1
RID : 5.1
IMDG : 5.1
IATA : 5.1

14.4 Packing group

ADN

Packing group : II
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1

ADR

Packing group : II
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1
Tunnel restriction code : (E)

RID

Packing group : II
Classification Code : O2
Hazard Identification Number : 50
Labels : 5.1

IMDG

Packing group : II
Labels : 5.1
EmS Code : F-A, S-Q

Segregation group : 2: Ammonium compounds

IATA

Packing instruction (cargo : 562

aircraft)

Packing instruction : 558

(passenger aircraft)

Packing instruction (LQ) : Y544
Packing group : II
Labels : 5.1

14.5 Environmental hazards

ADN

Environmentally hazardous : no

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ADR

Environmentally hazardous : no

RID

Environmentally hazardous : no

IMDG

Marine pollutant : no

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/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High : Not listed

Concern for Authorisation (Article 59).

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of

major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2

ANNEX I;P8 OXIDIZING LIQUIDS AND 50.000 kg 200.000 kg

SOLIDS

Water hazard class

(Germany)

: WGK 1 slightly hazardous to water

Other regulations : This product is subject to Regulation (EU) 2019/1148;

suspicious transactions, disappearance or theft of the product

must be reported to the relevant authority.

This product is subject to Regulation (EU) 2019/1148;

suspicious transactions, disappearance or theft of the product

must be reported to the relevant authority.

The product is subject to the supply restrictions of the

Ordinance on the Prohibition of Chemicals.

according to Regulation (EC) No. 1907/2006

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15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer. H319 : Causes serious eye irritation.

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

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

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