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

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

1.1 Product identifier

Trade name : NovaTec® Suprem 21-5-10

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

Schweiz/Suisse/Svizerra: Tox Info Suisse

Telephone:145

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

Additional Labelling

EUH210 Safety data sheet available on request.

Further information : German "Hazardous Substances" legislation (Gefahrstoffver-

ordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

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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 fertiliser

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27- 0050	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 50 - < 70
Ferrous sulfate monohydrate	17375-41-6 231-753-5 026-003-00-7 01-2119513203-57- XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Acute toxicity estimate Acute oral toxicity: 300,03 mg/kg	>= 1 - < 10
disodium tetraborate pentahydrate	12179-04-3 215-540-4 005-011-02-9 01-2119490790-32- XXXX	Eye Irrit. 2; H319 Repr. 1B; H360FD	>= 0,1 - < 0,3
3,4-Dimethylpyrazole phosphate	202842-98-6 424-640-9 01-0000017109-71- 0002	Acute Tox. 4; H302 Eye Irrit. 2; H319 Repr. 2; H361fd STOT RE 2; H373 Acute toxicity estimate	>= 0,05 - < 0,3

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Acute oral toxicity: 500,05 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.

Do not leave the victim unattended.

Protection of first-aiders : 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.

If inhaled : If breathed in, move person into fresh air.

If symptoms persist, call a physician.

In case of skin contact : Wash off 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 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 symptoms and effects, both acute and delayed

Symptoms : Ingestion may provoke the following symptoms:

Methaemoglobinemia

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

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 : High volume water jet

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

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media Carbon dioxide (CO2)

Foam Sand

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Thermal decomposition can lead to release of irritating gases

and vapours.

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

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

Personal precautions : 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.

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

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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.

Keep away from heat and sources of ignition.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against :

fire and explosion

No special precautions required.

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 Conditions for safe storage, including any incompatibilities

Further information on stor-

age conditions

: Keep away from sources of ignition - No smoking. Keep away

from direct sunlight. Protect from moisture. Protect from con-

tamination.

Advice on common storage : Keep away from combustible materials.

Keep away from strong acids. Keep away from strong bases.

Keep away from food, drink and animal feedingstuffs.

Storage class (TRGS 510) : 5.1C

Further information on stor-

age stability

Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Not relevant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
disodium tetra- borate pentahy- drate	12179-04-3	MAK (inhalable fraction)	5 mg/m3	DE DFG MAK

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

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	Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
	AGW (Inhalable fraction)	0,5 mg/m3 (Borate)	DE TRGS 900	
Peak-limit: ex	Peak-limit: excursion factor (category): 2;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			

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
disodium tetraborate pentahydrate	Workers	Inhalation	Long-term local ef- fects	17,04 mg/m3
	Workers	Inhalation	Acute local effects	17,04 mg/m3
	Workers	Inhalation	Long-term systemic effects	9,8 mg/m3
	Consumers	Oral	Acute systemic effects	1,15 mg/kg bw/day
	Consumers	Inhalation	Long-term local ef- fects	3,4 mg/m3
	Consumers	Oral	Long-term systemic effects	1,15 mg/m3
	Consumers	Inhalation	Long-term systemic effects	4,9 mg/m3

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
disodium tetraborate pentahy-	Fresh water	2,9 mg/l
drate		
	Marine water	2,9 mg/l
	Soil	5,7 mg/l
	Sewage treatment plant	10 mg/l

8.2 Exposure controls

Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : Gloves

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

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Directive : 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 : 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : violet

Odour : slight

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

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

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Auto-ignition temperature : does not ignite

Decomposition temperature : > 130 °C

pH : 4,5 - 5,5 (20 °C)

Concentration: 100 g/l

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

Not applicable

Bulk density : 1.000 - 1.200 kg/m³

Particle characteristics

Particle Size Distribution : $D50 = 3.2 \text{ mm} \pm 0.4 \text{ mm}$

Measurement technique: Optoelectronic measurement meth-

od

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : not auto-flammable

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.

10.4 Conditions to avoid

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

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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

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.

Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg

Method: Calculation method

Components:

ammonium nitrate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

Ferrous sulfate monohydrate:

Acute oral toxicity : LD50: > 300 - < 2.000 mg/kg

Assessment: Harmful if swallowed.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

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

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disodium tetraborate pentahydrate:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral tox-

icity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

3,4-Dimethylpyrazole phosphate:

Acute oral toxicity : LD50 (Rat): > 500 mg/kg

Method: OECD Test Guideline 423

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhala-

tion toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal

toxicity

Skin corrosion/irritation

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

Components:

ammonium nitrate:

Assessment : No skin irritation

Ferrous sulfate monohydrate:

Assessment : Irritating to skin.

disodium tetraborate pentahydrate:

Assessment : No skin irritation

3,4-Dimethylpyrazole phosphate:

Assessment : No skin irritation

Serious eye damage/eye irritation

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

Product:

Species : Rabbit

Method : OECD Test Guideline 405

Result : No eye irritation

Remarks : Based on data from similar materials

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

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Components:

ammonium nitrate:

Species : Rabbit Exposure time : 24 h

Assessment : Irritating to eyes.

Method : OECD Test Guideline 405

Ferrous sulfate monohydrate:

Assessment : Irritating to eyes.

disodium tetraborate pentahydrate:

Species : Rabbit

Result : Irritating to eyes.

3,4-Dimethylpyrazole phosphate:

Assessment : Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation

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

Respiratory sensitisation

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

Components:

ammonium nitrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

Ferrous sulfate monohydrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

disodium tetraborate pentahydrate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

3,4-Dimethylpyrazole phosphate:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

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

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Germ cell mutagenicity

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

Components:

ammonium nitrate:

Genotoxicity in vitro : Method: OECD Test Guideline 471

Result: negative

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Ferrous sulfate monohydrate:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

disodium tetraborate pentahydrate:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Based on data from similar materials

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

3,4-Dimethylpyrazole phosphate:

Germ cell mutagenicity- As-

sessment

Weight of evidence does not support classification as a germ

cell mutagen.

Carcinogenicity

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

Components:

ammonium nitrate:

Carcinogenicity - Assess-

: Not classifiable as a human carcinogen.

ment

Ferrous sulfate monohydrate:

Carcinogenicity - Assess-

ment

Not classifiable as a human carcinogen.

disodium tetraborate pentahydrate:

Remarks : Animal testing did not show any carcinogenic effects.

Based on data from similar materials

Carcinogenicity - Assess : Not classifiable as a human carcinogen.

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

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ment

3,4-Dimethylpyrazole phosphate:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

Reproductive toxicity

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

Components:

ammonium nitrate:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

No effects on or via lactation

Ferrous sulfate monohydrate:

Reproductive toxicity - As-

sessment

No toxicity to reproduction

No effects on or via lactation

disodium tetraborate pentahydrate:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Result: Embryotoxic effects and adverse effects on the off-

spring were detected.

Remarks: Clear evidence of adverse effects on sexual function and fertility, and/or on development, based on animal

experiments

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, and/or on development, based on animal experiments

No effects on or via lactation

3,4-Dimethylpyrazole phosphate:

Effects on fertility : Species: Rat, male and female

Application Route: Oral

Dose: 100 milligram per kilogram

General Toxicity - Parent: LOAEL: 100 mg/kg body weight

Fertility: LOAEL: 100 mg/kg body weight Method: OECD Test Guideline 416

Result: Embryotoxic effects and adverse effects on the off-

spring were detected.

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

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Reproductive toxicity - As-

sessment

Some evidence of adverse effects on development, based on animal experiments., Some evidence of adverse effects on sexual function and fertility, based on animal experiments., No

effects on or via lactation

STOT - single exposure

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

Components:

ammonium nitrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

Ferrous sulfate monohydrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

disodium tetraborate pentahydrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

3,4-Dimethylpyrazole phosphate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, single exposure.

STOT - repeated exposure

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

Components:

ammonium nitrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Ferrous sulfate monohydrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

disodium tetraborate pentahydrate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

3,4-Dimethylpyrazole phosphate:

Assessment : The substance or mixture is classified as specific target organ

toxicant, repeated exposure, category 2.

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

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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 : inhalation (dust/mist/fume)

Exposure time : 2 w

Method : OECD Test Guideline 412

Aspiration toxicity

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

Components:

ammonium nitrate:

No aspiration toxicity classification

Ferrous sulfate monohydrate:

No aspiration toxicity classification

disodium tetraborate pentahydrate:

No aspiration toxicity classification

3,4-Dimethylpyrazole phosphate:

No aspiration toxicity classification

11.2 Information on other hazards

Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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

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(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

Toxicity to daphnia and other :

aquatic invertebrates

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

Exposure time: 48 h

Toxicity to algae/aquatic

plants

ErC50 (diatoms): 1.700 mg/l

Exposure time: 10 h

Toxicity to microorganisms : EC50 (activated sludge): 1.000 mg/l

Exposure time: 3 h

Method: OECD Test Guideline 209

disodium tetraborate pentahydrate:

Toxicity to fish : (Pimephales promelas (fathead minnow)): 79,7 mg/l

Test Type: LC50

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 52,4

mg/l

Toxicity to fish (Chronic tox-

icity)

NOEC: 6,4 mg/l

Species: Danio rerio (zebra fish)

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 14,2 mg/l Species: Daphnia magna (Water flea)

3,4-Dimethylpyrazole phosphate:

Toxicity to fish : (Brachydanio rerio (zebrafish)): > 100 mg/l

Exposure time: 96 h Test Type: LC50

Method: OECD Test Guideline 203

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 48 h

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

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Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

NOEC: > 8.7 mg/l

Species: Non-standard test species

Toxicity to daphnia and other : aquatic invertebrates (Chron-

NOEC: > 25 mg/lSpecies: Daphnia magna (Water flea)

ic toxicity)

12.2 Persistence and degradability

Components:

ammonium nitrate:

Biodegradability Remarks: The methods for determining the biological degra-

dability are not applicable to inorganic substances.

3,4-Dimethylpyrazole phosphate:

Biodegradability Remarks: Inherently biodegradable.

According to the results of tests of biodegradability this prod-

uct is not readily biodegradable.

12.3 Bioaccumulative potential

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-

octanol/water

log Pow: -3,1

disodium tetraborate pentahydrate:

Partition coefficient: n-

octanol/water

: log Pow: -1,53 (22 °C)

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.

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

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Components:

disodium tetraborate pentahydrate:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

3,4-Dimethylpyrazole phosphate:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered 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

No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.

Dispose of in accordance with local regulations.

Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good

LATA P

IATA_P : Not regulated as a dangerous good

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

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14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA_P : Not regulated as a dangerous good

14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA (Cargo) : Not regulated as a dangerous good
IATA_P (Passenger) : 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 Maritime transport in bulk according to IMO instruments

Regulatory basis : IMSBC Code

MHB : no IMSBC Group : C

SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

Not applicable

REACH - Candidate List of Substances of Very High : disodium tetraborate pentahydrate

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

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Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

tants (recast)

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

Acquisition, introduction, possession or use of this product by the general public is restricted by Regulation (EU) 2019/1148. All suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Water hazard class (Germa: WGK 1 slightly hazardous to water

ny) Classification according to AwSV, Annex 1 (5.2)

15.2 Chemical safety assessment

Not relevant

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.

H360FD : May damage fertility. May damage the unborn child.

H361fd : Suspected of damaging fertility. Suspected of damaging the

unborn child.

H373 : May cause damage to organs through prolonged or repeated

exposure.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids

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

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Repr. : Reproductive toxicity

Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure

DE DFG MAK : Germany. MAK BAT Annex IIa

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

DE DFG MAK / MAK : MAK value

DE TRGS 900 / AGW : Time Weighted Average

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 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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