

SAFETY DATA SHEET

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



Hakaphos® Calcidic Plus N 19-6-6(+14)

Version	Revision Date:	SDS Number:	Date of last issue: 12.02.2025
1.1	15.02.2025	M0411	Date of first issue: 12.02.2025

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

1.1 Product identifier

Trade name : Hakaphos® Calcidic Plus N 19-6-6(+14)

Unique Formula Identifier (UFI) : 42J5-F0YX-N001-FC4X

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

Use of the Sub-stance/Mixture : Fertiliser

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)

Acute toxicity, Category 4	H302: Harmful if swallowed.
Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Serious eye damage, Category 1	H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H302
H314

Harmful if swallowed.
Causes severe skin burns and eye damage.

Precautionary statements

:

Prevention:

P260

Do not breathe dust.

P280

Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

Hazardous components which must be listed on the label:

nitric acid, ammonium calcium salt

urea phosphate

Further information

:

German "Hazardous Substances" legislation (Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

2.3 Other hazards

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

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

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

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
nitric acid, ammonium calcium salt	15245-12-2 239-289-5 01-2119493947-16-xxxx	Acute Tox. 4; H302 Eye Dam. 1; H318 Acute toxicity estimate Acute oral toxicity: 300,03 mg/kg	>= 50 - < 70
ammonium nitrate	6484-52-2 229-347-8 01-2119490981-27-0050	Ox. Sol. 3; H272 Eye Irrit. 2; H319	>= 20 - < 30
urea phosphate	4861-19-2 225-464-3 01-2119489460-34-XXXX	Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 3 - < 5

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 immediately with plenty of water.
Take off all contaminated clothing immediately.
If symptoms persist, call a physician.

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- | | |
|------------------------|---|
| In case of eye contact | : Remove contact lenses.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Keep eye wide open while rinsing.
Protect unharmed eye.
Continue rinsing eyes during transport to hospital.
If eye irritation persists, consult a specialist. |
| If swallowed | : Keep respiratory tract clear.
Do NOT induce vomiting.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital. |

4.2 Most important symptoms and effects, both acute and delayed

- | | |
|----------|---|
| Symptoms | : Ingestion may provoke the following symptoms:
Methaemoglobinemia |
| Risks | : Harmful if swallowed.
Causes serious eye damage.
Causes severe burns. |

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 circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : High volume water jet
Carbon dioxide (CO ₂)
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 products | : Nitrogen oxides (NO _x)
Oxides of phosphorus
Carbon oxides |

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5.3 Advice for firefighters

- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
- 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.

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 application area.
Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against : The product is not flammable.

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fire and explosion

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 storage conditions : Keep away from sources of ignition - No smoking. Keep away from direct sunlight. Protect from moisture.

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 storage 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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
urea phosphate	Workers	Inhalation	Long-term local effects	2,92 mg/m3
	Consumer use	Inhalation	Long-term local effects	0,73 mg/m3

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

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Substance name	Environmental Compartment	Value
ammonium nitrate	Sewage treatment plant	18 mg/l

8.2 Exposure controls

Personal protective equipment

- Eye/face protection : Safety glasses with side-shields
- Hand protection
- Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
- Break through time : > 480 min
- Glove thickness : > 0,3 mm
- Directive : Equipment should conform to EN 374
- Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. As the product is a mixture of several substances, the durability 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 : green, white
- Odour : none
- Melting point/range : not determined
- Boiling point/boiling range : not determined

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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 To avoid thermal decomposition, do not overheat.
pH	:	ca. 1,9 (20 °C) Concentration: 100 g/l
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Density	:	not determined
Bulk density	:	ca. 900 - 1.200 kg/m ³
Particle characteristics Particle Size Distribution	:	D50 = 700 µm ± 60 µm Measurement technique: Sieve analysis

9.2 Other information

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

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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

Conditions to avoid : Hot surface(s)
Direct sources of heat.

10.5 Incompatible materials

Materials to avoid : Strong bases
Organic materials
Strong acids
Powdered metals

10.6 Hazardous decomposition products

Hazardous decomposition products : Sulphur oxides
Oxides of phosphorus
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity : Acute toxicity estimate: 952,38 mg/kg
Method: Calculation method

Components:

nitric acid, ammonium calcium salt:

Acute oral toxicity : LD50 (Rat, female): > 300 - < 2.000 mg/kg
Method: OECD Test Guideline 423
Assessment: Harmful if swallowed.

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

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

ammonium nitrate:

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

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

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

urea phosphate:

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

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

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

Skin corrosion/irritation

Causes severe burns.

Components:

nitric acid, ammonium calcium salt:

Assessment : No skin irritation

ammonium nitrate:

Assessment : No skin irritation

urea phosphate:

Assessment : Causes burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Components:

nitric acid, ammonium calcium salt:

Assessment : Risk of serious damage to eyes.

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ammonium nitrate:

Species	: Rabbit
Exposure time	: 24 h
Assessment	: Irritating to eyes.
Method	: OECD Test Guideline 405

urea phosphate:

Assessment	: Risk of serious damage to eyes.
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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:

nitric acid, ammonium calcium salt:

Assessment	: Does not cause skin sensitisation.
Assessment	: Does not cause respiratory sensitisation.

ammonium nitrate:

Assessment	: Does not cause skin sensitisation.
Assessment	: Does not cause respiratory sensitisation.

urea phosphate:

Assessment	: Does not cause skin sensitisation.
Assessment	: Does not cause respiratory sensitisation.

Germ cell mutagenicity

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

Components:

nitric acid, ammonium calcium salt:

Germ cell mutagenicity- Assessment	: Weight of evidence does not support classification as a germ cell mutagen.
------------------------------------	--

ammonium nitrate:

Genotoxicity in vitro	: Method: OECD Test Guideline 471 Result: negative
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Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

urea phosphate:

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

Carcinogenicity

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

Components:

nitric acid, ammonium calcium salt:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

ammonium nitrate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

urea phosphate:

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

Reproductive toxicity

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

Components:

nitric acid, ammonium calcium salt:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

ammonium nitrate:

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

urea phosphate:

Reproductive toxicity - Assessment : No toxicity to reproduction

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No effects on or via lactation

STOT - single exposure

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

Components:

nitric acid, ammonium calcium salt:

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

ammonium nitrate:

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

urea 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:

nitric acid, ammonium calcium salt:

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

ammonium nitrate:

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

urea phosphate:

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

Repeated dose toxicity

Components:

ammonium nitrate:

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

Species : Rat

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NOAEL : = 256 mg/kg
Application Route : Oral
Exposure time : 52 w
Method : OECD Test Guideline 453

Species : Rat
NOAEL : \geq 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:

nitric acid, ammonium calcium salt:

No aspiration toxicity classification

ammonium nitrate:

No aspiration toxicity classification

urea phosphate:

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

Toxicity to daphnia and other : EC50 (Daphnia (water flea)): 490 mg/l
aquatic invertebrates Exposure time: 48 h

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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

12.2 Persistence and degradability

Components:

ammonium nitrate:

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

12.3 Bioaccumulative potential

Components:

ammonium nitrate:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Partition coefficient: n-octanol/water : log Pow: -3,1

urea phosphate:

Partition coefficient: n-octanol/water : log Pow: -1,73 (20 °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.

12.6 Endocrine disrupting properties

Product:

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

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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 retain residue and can be dangerous.
Empty containers should be taken to an approved waste handling site for recycling or disposal. |

SECTION 14: Transport information

14.1 UN number or ID number

- | | |
|------|-----------|
| ADN | : UN 1759 |
| ADR | : UN 1759 |
| RID | : UN 1759 |
| IMDG | : UN 1759 |
| IATA | : UN 1759 |

14.2 UN proper shipping name

- | | |
|------|---|
| ADN | : CORROSIVE SOLID, N.O.S.
(urea phosphate) |
| ADR | : CORROSIVE SOLID, N.O.S.
(urea phosphate) |
| RID | : CORROSIVE SOLID, N.O.S.
(urea phosphate) |
| IMDG | : CORROSIVE SOLID, N.O.S.
(urea phosphate) |
| IATA | : Corrosive solid, n.o.s.
(urea phosphate) |

14.3 Transport hazard class(es)

- | | Class | Subsidiary risks |
|-----|-------|------------------|
| ADN | : 8 | |
| ADR | : 8 | |

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RID	:	8
IMDG	:	8
IATA	:	8

14.4 Packing group

ADN

Packing group	:	III
Classification Code	:	C10
Hazard Identification Number	:	80
Labels	:	8

ADR

Packing group	:	III
Classification Code	:	C10
Hazard Identification Number	:	80
Labels	:	8
Tunnel restriction code	:	(E)

RID

Packing group	:	III
Classification Code	:	C10
Hazard Identification Number	:	80
Labels	:	8

IMDG

Packing group	:	III
Labels	:	8
EmS Code	:	F-A, S-B
Remarks	:	Acids

IATA (Cargo)

Packing instruction (cargo aircraft)	:	864
Packing instruction (LQ)	:	Y845
Packing group	:	III
Labels	:	Corrosives

IATA_P (Passenger)

Packing instruction (passenger aircraft)	:	860
Packing instruction (LQ)	:	Y845
Packing group	:	III
Labels	:	Corrosives

14.5 Environmental hazards

ADN

Environmentally hazardous	:	no
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ADR

Environmentally hazardous	:	no
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RID

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Environmentally hazardous : no

IMDG

Marine pollutant : no

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 pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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.

nitric acid, ammonium calcium salt (ANNEX II)
potassium nitrate (ANNEX II)
ammonium nitrate (ANNEX I)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. : Not applicable

Water hazard class (Germany) : WGK 1 slightly hazardous to water
Classification according to AwSV, Annex 1 (5.2)

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

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Other regulations:

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

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.
H314	: Causes severe skin burns and eye damage.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.

Full text of other abbreviations

Acute Tox.	: Acute toxicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Ox. Sol.	: Oxidizing solids
Skin Corr.	: Skin corrosion

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

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Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECL - 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:

Acute Tox. 4	H302
Skin Corr. 1	H314
Eye Dam. 1	H318

Classification procedure:

Calculation method
Based on product data or assessment
Based on product data or assessment

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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