according to Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : PERLKA®

Registration number : if available listed in Chapter. 3

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

Manufacturer : AlzChem Trostberg GmbH

Dr.-Albert-Frank-Str. 32 83308 Trostberg, Germany

Telephone : +49 8621 86-3351

E-mail address of person

responsible for the SDS

: alz-pst@alzchem.com

Supplier New Zealand : Lefroy Valley NZ

94 John Street

Pukekohe 2120, New Zealand

Telephone : +64 (9) 238-3593

1.4 Emergency telephone number

Emergency telephone num-

ephone num- : National Poisons Center NZ 0800 764 766 (0800 POISON)

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 irritation, Category 2 H315: Causes skin irritation.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Specific target organ toxicity - single ex-

posure, Category 3

H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard, Cat-

egory 3

ber

H412: Harmful to aquatic life with long lasting ef-

fects.

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This product is classified hazardous according to the Hazardous Substances (Classification)

Notice 2017

HSR Number: Fertilisers (subsidiary hazard) - HSR002571

CLP	NZ EPA	wording
H302	6.1D	Substances that are acutely toxic - Harmful
H315	6.3A	Substances that are irritating to the skin
H317	6.5B	Substances that are contact sensitisers
H318	8.3A	Substances that are corrosive to ocular tissue
H335		
H412	9.1C	Substances that are harmful in the aquatic environment

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms





Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/protective clothing/eye protec-

tion/face protection.

Response:

P301 + P312 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and

water.

P304 + P340 IF INHALED: Remove person to fresh air and

keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and

easy to do. Continue rinsing.

2.3 Other hazards

A PBT/vPvB evaluation is not available, since a chemical safety evaluation is not required / has not been carried out

Intake of alcoholic beverages increases the effect (see 4. Information for physician).

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SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Fertilizer based on calcium cyanamide

contains: 1.8 %

Nitric nitrogen

Residual content of calcium carbide < 0.1 %

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
calcium cyanamide, technical	156-62-7 205-861-8 615-017-00-4 01-2119777581-29- 0000	Acute Tox. 4; H302 Skin Irrit. 2; H315 Skin Sens. 1; H317 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412	> 40
calcium dihydroxide	1305-62-0 215-137-3 01-2119475151-45- XXXX	Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	13 - 15
Graphite	7782-42-5 231-955-3 01-2119486977-12- XXXX	not classified	>= 11
Calcium nitrate tetrahydrate	13477-34-4 603-865-8 01-2119495093-35- 0019	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 10
calcium sulphate	7778-18-9 231-900-3 01-2119444918-26- XXXX	not classified	< 3

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Seek medical advice in case of symptoms caused by eye or

skin contact, inhalation or swallowing.

Remove contaminated or soaked clothing immediately and

dispose of safely.

If inhaled : Move to fresh air.

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

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In case of eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 10 minutes.

Remove contact lenses if this can be easily done.

Immediate further treatment in ophthalmic hospital/ ophthal-

mologist.

If swallowed : Rinse mouth.

Drink 1 or 2 glasses of water. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Erythema

Fall in blood pressure increased pulse frequency,

feeling of burning,

Irritation of skin and mucous membranes

headache

Shortness of breath

Nausea

Risks : Attention: interactions with alcohol (ethanol).

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treatment:

No specific antidote known. Symptomatic treatment. Control of circulatory system

If necessary, administer activated charcoal (10-20g) and sodi-

um sulfate (Glauber salt, 20g).

stomach pumping under gastroscopic view.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : quenching powder

Dry sand water spray

Unsuitable extinguishing

media

high volume water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion prod: :

ucts

Ammonia nitrous gases Carbon oxides

5.3 Advice for firefighters

Special protective equipment:

for firefighters

In the case of fire, wear respiratory protective equipment independent of surrounding air and chemical protective suit.

according to Regulation (EC) No. 1907/2006



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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Wear personal protective equipment; see section 8.

Avoid dust formation.

Ensure adequate ventilation.

6.2 Environmental precautions

Environmental precautions : Product or extinguishing water with product must not be al-

lowed to enter soil, sewers or natural bodies of water.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Sweep up and shovel.

Avoid dust formation.

Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Provide appropriate exhaust ventilation at places where dust

is formed.

Handle in accordance with good industrial hygiene and safety

practice.

Use in the open air or with adequate ventilation.

Advice on protection against

fire and explosion

Does not present a risk of dust explosion 1 m3 standard con-

tainer, 10 kJ ignition energy

Keep away from combustible material.

Hygiene measures : Avoid contact with skin, eyes and clothing. Take off clothing

and shoes contaminated with product. Clean before reuse. Do not consume any alcoholic beverages before, during or after working with this product. Do not eat, drink or smoke during use. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal

feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Keep in a dry place. Keep in a well-ventilated place.

Advice on common storage : Incompatible with acids and bases.

Incompatible with oxidizing agents.

If stored together outdoors with ammonium nitrate and ammonium nitrate preparations, a minimum distance between the containers of 5 m must be maintained, (TRGS 511, 6.1.2 (3)). If lime nitrogen is stored together in the same room with am-

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monium nitrate and preparations containing ammonium nitrate, a minimum distance between the containers of 2.5 m

must be maintained, (TRGS 511, 6.1.2 (6)).

Protect against humid air and water.

Storage class (TRGS 510) : 13, Non Combustible Solids

Packaging material : Suitable material: polyethylene, Stainless steel

7.3 Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form	Control parameters	Basis
		of exposure)		
calcium dihydrox-	1305-62-0	TWA (Respirable	1 mg/m3	2017/164/EU
ide		fraction)		
Further information	Indicative			
Further information	Indicative	STEL (Respira-	4 mg/m3	2017/164/EU
Further information	Indicative	STEL (Respira- ble fraction)	4 mg/m3	2017/164/EU

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Nitrile rubber, Recommendation: Dermatril 740

Break through time : > 480 min
Glove thickness : 0.11 mm
Directive : DIN EN 374

Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Material : Nitrile rubber, Recommendation: Camatril 730

Break through time : > 480 min
Glove thickness : 0.6 mm
Directive : DIN EN 374

Manufacturer : Kächele-Cama Latex GmbH (KCL), Germany

Skin and body protection : Protective clothing

If intensive contact with the hazardous material cannot be avoided with certainty, order (depending on the hazard involved) additional protective measures for example chemical

protective suit.

DuPont™ Tyvek® Classic Xpert (white)

DuPont™ Tychem® C (yellow)

Respiratory protection : Do not inhale gases, vapours, aerosols or dust - use respira-

tory protection equipment.

Dust protection mask in accordance with EN 149 FFP2

according to Regulation (EC) No. 1907/2006



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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : solid

Colour : grey to black

Odour : characteristic

pH : Aqueous solutions are strongly alkaline.

Melting point/range : 1145 - 1217 °C

Boiling point/boiling range : not to be determined

Flash point : Not applicable, solid

Flammability (solid, gas) : not flammable

Method: Flammability (solids)

Vapour pressure : Not applicable

Density : 2.3 g/cm3 (20 °C)

Bulk density : 1000 kg/m3

Auto-ignition temperature : > 850 °C (ca. 1100 - 1600 hPa)

9.2 Other information

Minimum ignition energy : > 30 kJ

comparable product

SECTION 10: Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

No decomposition if stored normally.

10.3 Possibility of hazardous reactions

Hazardous reactions : No hazardous reactions are known if properly handled and

stored.

10.4 Conditions to avoid

Conditions to avoid : No specific hazards are known.

10.5 Incompatible materials

Materials to avoid : Acids and bases

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Oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): 594 mg/kg

Method: OECD Test Guideline 401 Assessment: Harmful if swallowed.

Remarks: Own test result.

Acute inhalation toxicity : Maximum attainable concentration (Rat): 5.1 mg/l

Method: OECD Test Guideline 403

Assessment: Based on available data, the classification crite-

ria are not met.

Remarks: maximum attainable dust concentration during the

test: 10% mortality after 4 hour inhalation

Own test result.

Acute dermal toxicity : LD50 (Rabbit): > 2000 mg/kg

Assessment: Based on available data, the classification crite-

ria are not met.

Remarks: Own test result.

Components:

calcium cyanamide, technical:

Acute oral toxicity : LD50 (Rat): 765 mg/kg

Assessment: Harmful if swallowed.

Remarks: Own test result.

Acute inhalation toxicity : Maximum attainable concentration (rat): > 0.155 mg/l

Exposure time: 4 h

Assessment: Based on available data, the classification crite-

ria are not met.

Remarks: maximum concentration in the test: no animals died.

Own test result.

Acute dermal toxicity : LD50 (Rabbit): > 2000 mg/kg

Method: OECD Test Guideline 402

Assessment: Based on available data, the classification crite-

ria are not met.

Remarks: Own test result.

calcium dihydroxide:

Acute oral toxicity : Assessment: Based on available data, the classification crite-

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ria are not met.

Remarks: Literature, IUCLID

Calcium nitrate tetrahydrate:

Acute oral toxicity : LD50 (rat): 1000 mg/kg

Method: OECD 423

Assessment: Harmful if swallowed. Remarks: Literature, IUCLID

Acute inhalation toxicity : Remarks: no data available

Acute dermal toxicity : LD50 (Rat): > 2000 mg/kg

Remarks: Literature, IUCLID

Skin corrosion/irritation

Product:

Species : Rabbit Exposure time : 4 h

Assessment : Irritating to skin.

Method : OECD Test Guideline 404

Remarks : Own test result.

Components:

calcium cyanamide, technical:

Result : irritating

Remarks : Based on experience in human subjects

calcium dihydroxide:

Assessment : Causes skin irritation.

Method : OECD Guide-line 404

Result : Irritating to skin.

Remarks : Literature, IUCLID

Calcium nitrate tetrahydrate:

Species : Rabbit Exposure time : 4 h

Result : No skin irritation

Remarks : The data are derived from the evaluations or test results

achieved with similar products (conclusion by analogy).

Literature, IUCLID

Serious eye damage/eye irritation

Product:

Species : Rabbit Exposure time : 24 h Assessment : Corrosive

Method : OECD Guide-line 405

Result : Risk of serious damage to eyes.

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Remarks : Own test result.

Components:

calcium cyanamide, technical:

Species : Rabbit

Assessment : Risk of serious damage to eyes.

Method : OECD Test Guideline 405

Result : Causes serious eye damage.

Remarks : Own test result.

calcium dihydroxide:

Assessment : Causes serious eye damage.

Method : OECD Guide-line 405

Remarks : Literature, IUCLID

Calcium nitrate tetrahydrate:

Species : Rabbit

Assessment : Causes serious eye damage.

Method : OECD Guide-line 405

Remarks : Literature, IUCLID

Respiratory or skin sensitisation

Product:

Result : May cause sensitisation by skin contact.

Components:

calcium cyanamide, technical:

Test Type : maximization test Species : Guinea pig

Method : OECD Test Guideline 406

Result : May cause sensitisation by skin contact.

Remarks : Own test result.

calcium dihydroxide:

Remarks : no data available

Calcium nitrate tetrahydrate:

Test Type : Local Lymphnode Assay

Species : Mouse

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

Remarks : The data are derived from the evaluations or test results

achieved with similar products (conclusion by analogy).

Literature, IUCLID

Germ cell mutagenicity

Product:

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Germ cell mutagenicity- As-

sessment

Not mutagenic in a battery of in-vitro test systems.

Components:

calcium cyanamide, technical:

Genotoxicity in vitro : Test Type: Sister chromatid exchange assay

Test system: CHO-cells

Result: negative

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Rat Result: negative

Germ cell mutagenicity- As-

sessment

Not mutagenic in a battery of in-vitro test systems., Own study

calcium dihydroxide:

Germ cell mutagenicity- As-

sessment

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

Remarks: Literature, IUCLID

Calcium nitrate tetrahydrate:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay

Result: negative

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Literature, IUCLID

Germ cell mutagenicity- As-

sessment

Remarks: Literature, IUCLID

Carcinogenicity

Product:

Remarks : Did not show carcinogenic effects in animal experiments.

Components:

calcium cyanamide, technical:

Remarks : No evidence that cancer may be caused.

Literature, IUCLID

calcium dihydroxide:

Carcinogenicity - Assess-

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

Remarks: Literature, IUCLID

Calcium nitrate tetrahydrate:

Remarks : No data available

Carcinogenicity - Assess-

No data available

ment

ment

Remarks: Literature, IUCLID

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Reproductive toxicity

Product:

Effects on fertility : Remarks: no data available

Components:

calcium cyanamide, technical:

Reproductive toxicity - As-

sessment

: no data available

calcium dihydroxide:

Reproductive toxicity - As-

sessment

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

Remarks: Literature, IUCLID

Calcium nitrate tetrahydrate:

Effects on fertility : Remarks: Literature, IUCLID

Reproductive toxicity - As-

sessment

Based on available data, the classification criteria are not met., The data are derived from the evaluations or test results

achieved with similar products (conclusion by analogy).

Remarks: Literature, IUCLID

STOT - single exposure

Product:

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

toxicant, single exposure, category 3 with respiratory tract

irritation.

Components:

calcium cyanamide, technical:

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

toxicant, single exposure, category 3 with respiratory tract

irritation.

Remarks : IUCLID

calcium dihydroxide:

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

toxicant, single exposure, category 3 with respiratory tract

irritation.

Remarks : Literature, IUCLID

STOT - repeated exposure

Product:

Remarks : no data available

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Components:

calcium cyanamide, technical:

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

Remarks : IUCLID

calcium dihydroxide:

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

Remarks : Literature, IUCLID

Aspiration toxicity

Product:

No data available

Components:

calcium cyanamide, technical:

No data available

calcium dihydroxide:

No data available

Calcium nitrate tetrahydrate:

No data available

Experience with human exposure

Product:

General Information : Alcohol consumption increases the effect of the poison.

Concentration above the OEL may cause irritation of eyes and

mucous membranes.

Patch test on human volunteers did not demonstrate sensiti-

sation properties.

Components:

calcium cyanamide, technical:

General Information : Alcohol consumption increases the effect of the poison.

Further information

Product:

Remarks : No additional toxicological data are available.

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SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : LC50 (Danio rerio): 212.8 mg/l

Exposure time: 96 h Method: OECD 203

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

NOEC (Danio rerio): 152 mg/l

Exposure time: 96 h Method: OECD 203

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna): 9.12 mg/l

Exposure time: 48 h Method: OECD 202

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

NOEC (Daphnia magna): 2.736 mg/l

Exposure time: 48 h Method: OECD 202

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchnerella subcapitata): 41.86 mg/l

Exposure time: 72 h Method: OECD 201

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

NOEC (Pseudokirchnerella subcapitata): 20.87 mg/l

Exposure time: 72 h Method: OECD 201

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Ecotoxicology Assessment

Chronic aquatic toxicity : Harmful to aquatic life with long lasting effects.

Components:

calcium cyanamide, technical:

Toxicity to fish : LC50 (Danio rerio): 140 mg/l

Exposure time: 96 h Method: OECD 203 Remarks: Own test result.

NOEC (Danio rerio): 100 mg/l

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Method: OECD 203 Remarks: Own test result.

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 6.0 mg/l

Exposure time: 48 h Method: OECD 202 Remarks: Own test result.

NOEC (Daphnia magna (Water flea)): 1.8 mg/l

Exposure time: 48 h Method: OECD 202 Remarks: Own test result.

Toxicity to algae/aquatic

plants

ErC50 (Pseudokirchnerella subcapitata): 27.54 mg/l

Exposure time: 72 h Method: OECD 201 Remarks: Own test result.

NOEL (Pseudokirchnerella subcapitata): 13.73 mg/l

Method: OECD 201 Remarks: Own test result.

calcium dihydroxide:

Toxicity to fish : LC50 (Oncorhynchus mykiss): 50.6 mg/l

Exposure time: 96 h Method: OECD 203

Remarks: Literature, IUCLID

Calcium nitrate tetrahydrate:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): 1378 mg/l

Exposure time: 96 h Test Type: static test

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Literature, IUCLID

NOEC (Rainbow trout): 100 mg/l

Exposure time: 96 h

Remarks: The data are derived from the evaluations or test results achieved with similar products (conclusion by analogy).

Literature, IUCLID

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 490 mg/l

Exposure time: 48 h

Remarks: Literature, IUCLID

Toxicity to microorganisms : EC50 (Activated sludge): > 1000 mg/l

Exposure time: 3 h

Test Type: Growth inhibition Remarks: Literature, IUCLID

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12.2 Persistence and degradability

Product:

Biodegradability : Remarks: Hydrolysis in water

In the soil, the product acts as fertilizer and is degraded within

a few weeks.

Components:

calcium cyanamide, technical:

Biodegradability : Inoculum: Activated sludge

Result: Not readily biodegradable.

Method: OECD 301 B Remarks: Hydrolysis in water

Calcium nitrate tetrahydrate:

Biodegradability : Remarks: No data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A PBT/vPvB evaluation is not available, since a chemical

safety evaluation is not required / has not been carried out.

12.6 Other adverse effects

Product:

Additional ecological infor-

mation

Prevent penetration into soil, stretches of water and drainage

systems

No further ecotoxicological data are available.

Components:

calcium cyanamide, technical:

Environmental fate and

pathways

In the soil, the product acts as fertilizer and is degraded within

a few weeks.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must be brought to an adequate waste treatment facility, in

conformity with applicable waste disposal regulations.

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Must not be disposed of together with household wastes. In the soil, the product acts as fertilizer and is degraded within

a few weeks.

Contaminated packaging : Packaging, that can not be reused after cleaning must be

disposed or recycled in accordance with all federal, national

and local regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %

ADR : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %

RID : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %

IMDG : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %

IATA (Cargo) : Not regulated as a dangerous good

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %

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

Remarks : Not classified as dangerous in the meaning of transport regu-

lations., Residual content of calcium carbide < 0.1 %Residual calcium carbide content < 0.1%, so that labelling

with UN No. 1403 is not necessary.

Perlka does not constitute hazardous cargo as defined by the transport regulations, so that transport together with ammoni-

according to Regulation (EC) No. 1907/2006



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um nitrate and preparations containing ammonium nitrate is permissible.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

The components of this product are reported in the following inventories:

NZIoC : Listed

Other regulations:

The product is a fertilizer with EEC-approval.

This product is classified hazardous according to the Hazardous Substances (Classification)

Notice 2017

HSR Number: Fertilisers (subsidiary hazrad) - HSR002571

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000kg (6.1D, 8.3A, 9.1C)
Emergency Response Plan	1000kg (6.5B,9.1C)
Secondary Containment	1000kg (6.5B,9.1C)
Restriction of Use	Only use for the intended purpose.

15.2 Chemical safety assessment

No substance safety assessment is required for this product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
H335 : May cause respiratory irritation.

H412 : Harmful to aquatic life with long lasting effects.

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Full text of other abbreviations

Acute Tox. : Acute toxicity

Aquatic Chronic : Long-term (chronic) aquatic hazard

Eye Dam. : Serious eye damage

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

STOT SE : Specific target organ toxicity - single exposure

2017/164/EU : Commission Directive (EU) 2017/164 establishing a fourth list

of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Direc-

tives 91/322/EEC, 2000/39/EC and 2009/161/EU

2017/164/EU / STEL : Short term exposure limit 2017/164/EU / TWA : Limit Value - eight hours

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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; 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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