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SAFETY DATA SHEET

Nordkalk

TURBO KALK-GH

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued 30.05.2024

1.1. Product identifier

Product name TURBO KALK-GH

UFI 3HW0-60WU-9000-FXV1

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

Use of the substance / mixture Outdoor use, inorganic fertilizer.

Main intended use PC-FER-1 Fertilisers

Industrial use Yes
Professional use Yes
Consumer use No

1.3. Details of the supplier of the safety data sheet

Company name Björka Mineral AB

Postcode SE-70597

City Glanshammar

Country Sweden

 Telephone number
 +46 10 476 2610

 Enterprise No.
 SE 556039-283801

1.4. Emergency telephone number

Emergency telephone Telephone number: 112

Description: Emergency telephone number

Open 24 hours a day.

Telephone number: +46 (0)10 456 6700

Description: Poison Information Centre (in Sweden, in less acute cases).

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Open 24 hours a day.

Identification, comments Please contact the Emergency Centre in your own country, e.g. 112 in European

Union countries.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Eye Dam. 1; H318

[CLP / GHS]

2.2. Label elements

Hazard pictograms (CLP)



Composition on the label Nitric acid, ammonium calcium salt

Signal word Danger

Hazard statements H318 Causes serious eye damage.

Precautionary statements P280 Wear eye protection/face protection.

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

PBT / vPvB For results of PBT and vPvB assessment, see point 12.5.

Other hazards Endocrine disrupting properties: This product does not contain substances

included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

at a concentration ≥ 0.1 %.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Dolomite	CAS No.: 16389-88-1	CLP classification, notes:	75 < 80 %	
	EC No.: 240-440-2	Not classified.		

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Nitric acid, ammonium

CAS No.: 15245-12-2

Acute Tox. 4; H302

20 < 25 %

calcium salt

EC No.: 239-289-5 REACH Reg. No.:

Eye Dam. 1; H318

01-2119493947-16-XXXX

Remarks, substance Acute toxicity estimates (ATE):

Nitric acid, ammonium calcium salt (CAS: 15245-12-2):

ATE (Oral) = 500 mg/kg

Substance comments The full text for all hazard statements is displayed in point 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General Move away from the hazardous area. Get medical attention. Show this safety

data sheet, product container or label to the doctor in attendance.

Inhalation Move person to fresh air in case of accidental inhalation of dust or fumes from

overheating or combustion. Keep at rest in a position comfortable for breathing.

Get medical attention if symptoms persist or are severe.

Skin contact Remove contaminated clothing and shoes. Wash contaminated skin with plenty

of soap and water or skin cleanser.

Eye contact Immediately flush eyes with plenty of water for several minutes, holding eyelids

> open. Protect the uninjured eye. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation or other symptoms persist, seek medical

attention.

Ingestion Rinse mouth with water and then drink plenty of water. Do not give milk or

alcoholic beverages to drink. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Contact a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Acute symptoms and effects Causes serious eye damage.

Delayed symptoms and effects None known.

4.3. Indication of any immediate medical attention and special treatment needed

Other information Treat symptomatically. No specific instructions.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

Improper extinguishing media None known.

5.2. Special hazards arising from the substance or mixture

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Fire and explosion hazards The product is not flammable.

Hazardous combustion products Combustion of the product may form smoke, carbon monoxide, carbon dioxide

and other products of incomplete combustion.

5.3. Advice for firefighters

Personal protective equipment

Wear appropriate protective equipment and self-contained breathing apparatus.

Other information

Do not discharge extinguishing waters into drains, sewers or any waterways. Contaminated extinguishing waters must be collected separately and not be released into drains or sewers . Take care of fire waste and contaminated

extinguishing water in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures Ensure adequate ventilation. Avoid generation and spreading of dust.

Personal protection measures Wear appropriate personal protective equipment. Avoid breathing dust. Avoid

contact with skin or eyes. For personal protection, see section 8.

6.2. Environmental precautions

Environmental precautionary

measures

Do not discharge the product or extinguishing waters into drains, sewers or any

waterways.

6.3. Methods and material for containment and cleaning up

Clean up Avoid generation and spreading of dust. Collect the product in a suitable and

sealable containers for disposal.

6.4. Reference to other sections

Other instructions Safe handling: see point 7.

Personal protective equipment: see point 8.

Waste disposal: see point 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling Ensure adequate ventilation. Wear appropriate personal protective equipment.

Avoid breathing dust. Avoid contact with skin, eyes, and clothing.

Protective safety measures

Preventitive measures to prevent aerosol and dust generation

Prevent formation of dust.

Advice on general occupational

hygiene

Handle in accordance with good industrial hygiene and safety practices. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday. Take off contaminated clothing and wash before reuse.

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7.2. Conditions for safe storage, including any incompatibilities

Storage Store in a dry, well-ventilated area.

Conditions to avoid For incompatible materials see point 10.5.

Conditions for safe storage

Requirements for storage rooms

and vessels

Keep container tightly closed.

7.3. Specific end use(s)

Specific use(s) The use stated in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Inorganic dust		Country of origin: Sweden	
		Limit value (8 h) : 5 mg/m³	
		Comments: Inhalable	
		fraction	
		Limit value (8 h) : 2,5 mg/	
		m³	
		Comments: Respirable	
		fraction	

DNEL / PNEC

Substance Dolomite

DNEL Group: Professional

Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

Group: Consumer

Route of exposure: Long-term inhalation (systemic)

Value: 10 mg/m³

Substance Nitric acid, ammonium calcium salt

DNEL Group: Consumer

Route of exposure: Acute oral (systemic)

Value: 10 mg/kg bw/day

PNEC Route of exposure: Freshwater

Value: 19,6 mg/l

Route of exposure: Saltwater

Value: 19,5 mg/l

Route of exposure: Sewage treatment plant STP

Value: 20,8 mg/l

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Route of exposure: Freshwater sediments

Value: 95,4 mg/kg dw

Route of exposure: Saltwater sediments

Value: 94,7 mg/kg dw

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent

exposure

Ensure adequate ventilation. Ensure that eye wash facilities and emergency shower are located near work station. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the

Eye / face protection

Suitable eye protection Use tight-fitting safety goggles.

Additional eye protection

measures

Bottle to wash eyes with clean water.

personal protective equipment.

Hand protection

Suitable gloves type Wear appropriate chemical resistant safety gloves (EN 374).

Suitable materials PVC.

Breakthrough time Value: 8 hour(s)
Thickness of glove material Value: 0,5 mm

Hand protection, comments Wash the gloves with soap and water before taking them off.

Skin protection

Suitable protective clothing Wear appropriate chemical-resistant, impervious protective clothing.

Respiratory protection

Respiratory protection necessary

at

If it is not possible to reduce exposure levels to below exposure limit values by

ventilation or if dust forms, use appropriate respirator.

Recommended type of equipment Filter device/half-mask. Dust filter P2 (for fine dust). (EN 143)

Thermal hazards

Thermal hazards Not relevant.

Appropriate environmental exposure control

Environmental exposure controls Prevent entry into sewers or the environment.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Physical state Sand. Gravel.

Colour Grey.

Odour Characteristic.

Odour limit Comments: Not determined.

pH Value: 8,5 - 9,5

Method: DIN-ISO 787/9

Comments: Concentration: 100 g/l

Temperature: 20 °C

Melting point / melting range Comments: Not determined. Decomposes below the melting point.

Boiling point / boiling range Comments: Not applicable.

Flash point Comments: Not applicable.

Flammability Not flammable.

Explosion limit Comments: Not applicable.

Vapour pressure Value: < 0,1 hPa

Temperature: 20 °C

Vapour density Comments: Not determined.

Particle characteristics Comments: Not determined.

Density Value: 2,8 - 2,9 g/cm³

Method: DIN-ISO 787/10

Temperature: 20 °C

Solubility Medium: Water

Value: 0,028 - 0,12 g/l Temperature: 20 °C

Partition coefficient: n-octanol/

water

Comments: Not determined.

Auto-ignition temperature Comments: Not determined.

Decomposition temperature Value: > 400 °C

Viscosity Comments: Not applicable.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties None reported.

9.2.2. Other safety characteristics

Comments None reported.

SECTION 10: Stability and reactivity

10.1. Reactivity

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Reactivity Not reactive under normal use and storage conditions.

10.2. Chemical stability

Stability Chemically stable under normal storage conditions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No dangerous reactions under normal use and storage conditions.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid No known incompatible materials.

10.6. Hazardous decomposition products

Hazardous decomposition

In a fire or if overheated, harmful compounds may be formed (carbon dioxide,

products carbon monoxide).

SECTION 11: Toxicological information

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

Acute toxicity Effect tested: ATEmix calculated

Route of exposure: Oral Value: > 2000 mg/kg

Comments: The product is not classified as acutely toxic. Based on available

data, the classification criteria are not met.

Substance Dolomite

Acute toxicity Effect tested: LD50

Route of exposure: Oral Value: > 5000 mg/kg Animal test species: Rat

Substance Nitric acid, ammonium calcium salt

Acute toxicity Effect tested: LD50

Route of exposure: Oral Method: OECD 401 Value: 500 mg/kg Animal test species: Rat

Effect tested: LD50

Route of exposure: Dermal Method: OECD 402 Value: > 2000 mg/kg Animal test species: Rat TURBO KALK-GH - Version 1 Page 9 of 12

Other information regarding health hazards

Assessment of skin corrosion /

irritation, classification

The product is not classified as irritant or corrosive to skin. Based on available data the classification criteria are not met. However, may cause skin irritation in

sensitive people.

Substance Nitric acid, ammonium calcium salt

Eye damage or irritation, test

results

Species: Rabbit

Evaluation result: Irreversible effects on the eyes.

Assessment of eye damage or

irritation, classification

Causes serious eye damage.

Sensitisation The product is not classified as a respiratory or skin sensitiser. Based on

available data the classification criteria are not met.

Mutagenicity The product is not classified as a mutagen. Data lacking.

Carcinogenicity, other information The product is not classified as a carcinogen. Data lacking.

Reproductive toxicityThe product is not classified as toxic to reproduction. Data lacking.

Assessment of specific target organ toxicity - single exposure,

classification

The product is not classified as toxic to specific target organs at a single

exposure. Data lacking.

Assessment of specific target organ toxicity - repeated exposure, classification

Assessment of aspiration hazard,

classification

The product is not classified as toxic to specific target organs at repeated

exposure. Data lacking.

The product is not classified as an aspiration hazard. Based on available data, the

classification criteria are not met.

Symptoms of exposure

In case of ingestion Not known.

In case of skin contact

May cause skin irritation in sensitive people.

In case of inhalation Not known.

In case of eye contact Causes serious eye damage.

11.2 Other information

Endocrine disruption This product does not contain substances included in the list established in

accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at a concentration ≥ 0.1 %.

Other information None reported.

SECTION 12: Ecological information

12.1. Toxicity

Substance Nitric acid, ammonium calcium salt

Aquatic toxicity, fish Toxicity type: Acute

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Value: 447 mg/l

Effect dose concentration: LC50 Exposure time: 48 hour(s)

Substance Nitric acid, ammonium calcium salt

Aquatic toxicity, algae Toxicity type: Acute

Value: > 100 mg/l

Effect dose concentration: EC50 Exposure time: 72 hour(s) Method: OECD 201

Substance Nitric acid, ammonium calcium salt

Aquatic toxicity, crustacean Toxicity type: Acute

Value: > 100 mg/l

Effect dose concentration: EC50
Exposure time: 48 hour(s)
Species: Daphnia magna
Method: OECD 202

Substance Nitric acid, ammonium calcium salt

Toxicity to bacteria Toxicity type: Acute

Value: 1.000 mg/l

Effect dose concentration: EC50 Exposure time: 3 hour(s) Method: OECD 209

Ecotoxicity There is no environmental data available about the product as such. The product

is not classified as hazardous to the environment. Avoid release to the

environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation

Not relevant for inorganic substances.

12.3. Bioaccumulative potential

Bioaccumulation, evaluation No data available.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

This product does not contain substances considered to be either PBT or vPvB at

assessment

a concentration $\geq 0.1\%$.

12.6. Endocrine disrupting properties

Endocrine disrupting properties This product does not contain substances included in the list established in

accordance with Article 59(1) of REACH for having endocrine disrupting properties, or identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or

Commission Regulation (EU) 2018/605 at a concentration ≥ 0.1 %.

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12.7. Other adverse effects

Additional ecological information

In solid form, these minerals form a large part of the rocks of the earth's surface. In dissolved form, they are a natural and necessary part of natural waters. These minerals are not easily biodegradable. Negative effects on the environment should therefore be out of the question. Concentrated solutions of minerals can still pose risks to aqueous organisms (disturbance of microflora and microfauna in the sediment and subsequent harmful impact on higher life forms).

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal

for the chemical

Do not pour into drains. Prevent entry into sewers, waterways and soil.

Appropriate methods of disposal for the contaminated packaging

After usage, empty the packing completely. Uncleaned empty containers are to be handled in the same way as the ones containing products. Do not reuse

containers.

Other information

Dispose of in compliance with local and national regulations.

SECTION 14: Transport information

Dangerous goods No

14.1. UN number

Comments The product is not classified for transportation.

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

IMDG Marine pollutant No.

Comments The product is not classified as hazardous to the environment.

14.6. Special precautions for user

Special safety precautions for

No special safety precautions.

user

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk (yes/no) No

SECTION 15: Regulatory information

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

Restriction of chemicals Entry: 65

according to Annex XVII (REACH) Nitric acid, ammonium calcium salt

CAS nr: 15245-12-2 EC nr: 15245-12-2

Legislation and regulations No specific regulations.

15.2. Chemical safety assessment

Chemical safety assessment

No

performed

SECTION 16: Other information

List of relevant H-phrases

(Section 2 and 3)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Training advice Read safety data sheet.

Key literature references and

sources for data

SDS by product manufacturer (4.11.2022)

Arbetsmiljöverkets föreskrifter och allmänna råd om hygieniska gränsvärden

(AFS 2018:1).

Abbreviations and acronyms used

DNEL: Derived No-Effect Level

EC50: Effective concentration: concentration which kills or immobilises 50 % of

exposed organisms

LC50: Lethal concentration 50 % (median lethal concentration): concentration

which kills 50 % of exposed organisms

LD50: Lethal dose 50 % (median lethal dose): dose which kills 50 % of exposed

organisms

PBT: Persistent, Bioaccumulative and Toxic substance.

PNEC: Predicted No-Effect Concentration

vPvB: very Persistent and very Bioaccumulative substance

Version 1

Prepared by Sweco Finland Oy

Comments The information of this safety data sheet is based on existing public information

sources, such as current legislation, available at the time of publication of the completed safety data sheet, and information on the Customer's products that has been provided by the Customer to Sweco. The Customer is responsible that

the information provided to Sweco is accurate and up to date.