SAFETY DATA SHEET

Crushed Granodiorite (0-200 mm)

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	09.06.2021
Revision date	23.05.2024

1.1. Product identifier

Product name	Crushed Granodiorite (0-200 mm)

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

Product group	Crushed natural rock
Use of the substance / mixture	Crushed rock for use at construction sites.

1.3. Details of the supplier of the safety data sheet

Company name	Mibau Stema Norge AS
Postal address	Jelsavegen 512
Postcode	4234
City	JELSA
Country	Norge
Telephone number	+47 527 92 900
Fax	+47 527 92 901
Email	post@mibau-stema.no
Website	www.mibau-stema.com

1.4. Emergency telephone number

Emergency telephone	Telephone number: +47 22 59 13 00 Description: Norwegian Poison Information Center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP classification, comments	Classification according to (EC) No.1272/2008: Not classified.

2.2. Label elements

Other label information (CLP)	NOT CLASSIFIED according to health-, fire- and environmental hazard.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.
Health effect	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. Repeated or prolonged inhalation of quartz dust may cause silicosis.
Other hazards	The chemical does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Feldspar group minerals	CAS No.: 68476-25-5 EC No.: 270-666-7		38 vol%	
Quartz	CAS No.: 14808-60-7 EC No.: 238-878-4		25 vol%	

Description of the mixture	Feldspar group minerals consists of: Plagioclase: 5 vol% Muscovite: 25 vol% Microcline 6 vol% Alkali feldspar 2 vol% The mixture contains the following minerals: Biotite: 20 vol% Hornblende: 12 vol% Epitdote: 2 vol% Hematite/Pyrite: 3 vol%
Substance comments	For substances without REACH registration number, no information has been provided by the subcontractor or manufacturer. The content of a-quarts in respirable form is less than the limit being subject for classification.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 113.
Inhalation	Fresh air and rest. Get medical attention if discomfort continues.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Get medical attention if any discomfort continues.
Eye contact	Promptly rinse eyes with plenty of water (tempered at 20-30°C) for at least 15 minutes. Remove contact lenses and open eyes wide apart. Remove particles remaining under the eyelids. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth with water. Do not induce vomiting. Get medical attention if any discomfort continues.

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

Acute symptoms and effects	Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.
Delayed symptoms and effects	Repeated or prolonged inhalation of quartz dust may cause silicosis.

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

Other information	Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	The chemical is not classified as flammable.
Hazardous combustion products	May include, but is not limited to: Metal oxides.

5.3. Advice for firefighters

Personal protective equipment	Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8.
Other information	Containers close to fire should be removed immediately or cooled with water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures	Provide adequate ventilation. Avoid inhalation of dust or aerosols and contact with skin and eyes. Use protective equipment as referred to in section 8.

6.2. Environmental precautions

Environmental precautionary measures	Do not allow to enter into sewer, water system or soil.

6.3. Methods and material for containment and cleaning up

Clean up	Carefully sweep up and collect. Collect in suitable containers and deliver as waste according to section 13.

6.4. Reference to other sections

Other instructions	See also sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling	Provide adequate ventilation. Use personal protected equipment. See section 8. Avoid handling which leads to dust formation. Avoid breathing dust.

Protective safety measures

Advice on general occupational hygiene	Do not eat, drink or smoke during work. Wash hands and face at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage	Store in a well-ventilated place.

Conditions for safe storage

Advice on storage compatability	Keep away from: Food and feed.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
a-Quarts, Respirable dust	CAS No.: 14808-60-7	Limit value (8 h) : 0,05 mg/m³ **Exposure limit letter** Letter code: K, G, 7	
a-kvarts, totalstøv		Limit value (8 h) : 0,3 mg/m³ **Exposure limit letter** Letter code: K	
Control parameters comments	Explanation of the notations: K = Capable of causing cancer and/or heritable genetic damage. G = The EU has adopted a binding limit value and/or notice for the substance. 7) Dust containing α-Quartz, Cristobalite and/or Tridymite shall be assessed on the basis of the summation equation. At the same time, the values for nuisance dust must be must be complied with. References (laws/regulations): Norwegian regulation on exposure limits: "FOR-2011-12-06-1358 Forskrift om tiltaksverdier og grenseverdier for fysiske og kjemiske faktorer i arbeidsmiljøet samt smitterisikogrupper for biologiske faktorer (forskrift om tiltaks- og grenseverdier)".		

8.2. Exposure controls

Precautionary measures to prevent exposure

Technical measures to prevent exposure	Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such

	equipment. A risk assessment of the work place/work activities (the actual risk) may lead to other control measures. The protection equipment's suitability and durability will depend on application.

Eye / face protection

Eye protection equipment	Description: Wear dust resistant safety goggles where there is danger of eye contact. Reference to relevant standard: EN ISO 16321-1:2022 (Eye and face protection for occupational use - Part 1: General requirements).
Additional eye protection measures	Eye wash facilities should be available at the work place. Either a fixed eye wash facility connected to the drinking water (preferably warm water) or a portable disposable unit.

Hand protection

Suitable gloves type	Gloves are recommended for prolonged use.
Breakthrough time	Comments: No specific information from the manufacturer.
Thickness of glove material	Comments: No specific information from the manufacturer.
Hand protection equipment	Description: No special material is recommended, as the chemical will not penetrate plastic or rubber. Glove thickness must be chosen in consultation with the glove supplier, who can inform about the breakthrough time for the glove. The gloves abilities may vary among the different glove manufacturers. Reference to relevant standard: EN ISO 374 (Protective gloves against chemicals and micro-organisms). EN ISO 21420:2020 (Protective gloves - General requirements and test methods).
Additional hand protection measures	Change gloves frequently.

Skin protection

Recommended protective clothing	Description: Ordinary workwear.
Additional skin protection measures	Emergency shower should be available at the workplace.

Respiratory protection

Recommended respiratory protection	Description: In case of inadequate ventilation or risk of inhalation of dust, use suitable respiratory equipment with particle filter (type P3). Reference to relevant standard: EN 143 (Respiratory protective devices - Particle filters - Requirements, testing, marking).

Appropriate environmental exposure control

Environmental exposure controls	Do not allow to enter into sewer, water system or soil.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid.

Colour	medium grey to slightly greenish-grey with specks of light grey to reddish grey.
Odour	Not determined.
Odour limit	Comments: Not relevant.
pH	Comments: Not relevant.
Melting point / melting range	Comments: Not determined.
Boiling point / boiling range	Comments: Not relevant.
Flash point	Comments: Not relevant.
Flammability	Not determined.
Explosion limit	Comments: Not relevant.
Vapour pressure	Comments: Not determined.
Vapour density	Comments: Not determined.
Particle characteristics	Value: 0 - 200 mm
Relative density	Comments: Not determined.
Solubility	Medium: Water Comments: Not soluble in water.
Partition coefficient: n-octanol/ water	Comments: Not determined.
Auto-ignition temperature	Comments: Not relevant.
Decomposition temperature	Comments: Not determined.
Viscosity	Comments: Not relevant.
Explosive properties	Not determined.
Oxidising properties	Not determined.

9.2. Other information

Other physical and chemical properties

Physical and chemical properties	No further information is available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Under normal use there is no known reactivity risk associated with this product.

10.2. Chemical stability

Stability	The chemical is stable under normal conditions of storage and use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	None known.

10.4. Conditions to avoid

Conditions to avoid	None known.

10.5. Incompatible materials

Materials to avoid	None in particular.

10.6. Hazardous decomposition products

Hazardous decomposition products	None under normal conditions. See also section 5.2.

SECTION 11: Toxicological information

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

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of skin corrosion / irritation, classification	Based on available data, the classification criteria are not met.
Assessment of eye damage or irritation, classification	Based on available data, the classification criteria are not met.
Assessment of respiratory sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of skin sensitisation, classification	Based on available data, the classification criteria are not met.
Assessment of germ cell mutagenicity, classification	Based on available data, the classification criteria are not met.
Assessment of carcinogenicity, classification	Based on available data, the classification criteria are not met.
Assessment of reproductive toxicity, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - single exposure, classification	Based on available data, the classification criteria are not met.
Assessment of specific target organ toxicity - repeated exposure, classification	Based on available data the classification criteria are not met.
Assessment of aspiration hazard, classification	Based on available data, the classification criteria are not met.

Symptoms of exposure

In case of ingestion	None under normal use.
In case of skin contact	Dust may cause mechanical irritation of the skin.
In case of inhalation	Dust may cause mechanical irritation of mucous membranes. Symptoms may include coughing, sore throat, reddening, burning sensation and heavy watering of the eyes Repeated or prolonged inhalation of quartz dust may cause silicosis.
In case of eye contact	Dust may give mechanical eye irritation.

11.2 Other information

Endocrine disruption	The chemical does not contain any known or suspected endocrine disruptors.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Not classified as dangerous to the environment.

12.2. Persistence and degradability

Persistence and degradability description/evaluation	There are no data available on the chemical itself.

12.3. Bioaccumulative potential

Bioaccumulation, comments	No data available.

12.4. Mobility in soil

Mobility	Insoluble in water.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	The chemical contains no PBT or vPvB substances.

12.6. Endocrine disrupting properties

Endocrine disrupting properties	The chemical does not contain any known or suspected endocrine disruptors.

12.7. Other adverse effects

Additional ecological information	Do not allow to enter into sewer, water system or soil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Appropriate methods of disposal for the chemical	Deliver to authorised waste vendor. The waste code (EWC-Code) is intended as a guide. The user must select a code if the use differs from the one mentioned below.
EWC waste code	EWC waste code: 010308 dusty and powdery wastes other than those mentioned in 01 03 07 Classified as hazardous waste: No
Other information	Do not empty into drains.

SECTION 14: Transport information

Dangerous goods	No

14.1. UN number

Comments	Not considered as dangerous goods under UN, IMO, ADR/RID or IATA/ICAO regulations.

14.2. UN proper shipping name

Comments	Not relevant.

14.3. Transport hazard class(es)

Comments	Not relevant.

14.4. Packing group

Comments	Not relevant.

14.5. Environmental hazards

IMDG Marine pollutant	No

14.6. Special precautions for user

Special safety precautions for user	Not relevant.

14.7. Maritime transport in bulk according to IMO instruments

Ship type required	Data lacking.

SECTION 15: Regulatory information

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

References (laws/regulations)	Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments. Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments. Norwegian regulation on dangerous goods: FOR 2009-04-01 nr 384: Forskrift om landtransport av farlig gods med senere endringer, Direktoratet for samfunnssikkerhet og beredskap. Norwegian regulations on waste, no. 930/2004, from Minestry of the Environment with later amendments.

15.2. Chemical safety assessment

Chemical safety assessment performed	No

SECTION 16: Other information

Supplier's notes	The information in this document should be made available to anyone who handles the product.
Key literature references and sources for data	On basis of test data.

Abbreviations and acronyms used	ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road EWC: European Waste Code (a code from the EU's common classification system for waste) IATA: The International Air Transport Association ICAO: The International Civil Aviation Organisation IMDG: The International Maritime Dangerous Goods Code PBT: Persistent, Bioaccumulative and Toxic RID: The Regulations concerning the International Carriage of Dangerous Goods by Rail vPvB: very Persistent and very Bioaccumulative UN: United Nations
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