

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

1.1. Product identifier

Trade name: SUPERIOR ABSORBENT GRANULES

Article number: KSP20

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

Product category: This material should only be used for industrial purposes.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier: TYGRIS Industrial
Unit 31
Kyle Road Industrial Estate
Irvine
Ayrshire
KA12 8LE
Tel +44 (0) 1294 311 066
Fax +44 (0) 1294 277 115
Email technical@tygrisindustrial.com

Further information obtainable from: Technical Department

1.4. Emergency telephone number: Tel +44 (0) 1294 311 066

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: This product has no classification under CLP.

2.2. Label elements This product has no label elements.

2.3. Other hazards

Other hazards: The product may have the following additional risks: Dustiness. This product may generate dust during handling and use. May contain contain quartz (crystalline silica) as natural impurity. Long term overexposure to crystalline silica dust may cause silicosis.

SECTION 3: Composition/information on ingredients

3.1. Substances

Mono-constituent:

Chemical Name: Kieselguhr, calcined

CAS No: 91053-39-3

EC No: 293-303-4

Impurities or additives that affect the classification:

Identifiers	Name	Concentrate	(*)Classification - Regulation (EC) No 1272/2008	
			Classification	Specific concentration limit
CAS No: 14808-60-7 EC No: 238-878-4	[1] Quartz (SiO ₂)	0 - 2.5 %	-	-

(*)The complete text of the H phrases is given in section 16 of this Safety Data Sheet.

[1] Substance with a Community workplace exposure limit (see section 8).

3.2. Mixtures

SECTION 4: First aid measures

4.1. Description of first aid measures

Skin contact:	Remove contaminated clothing.
Eye contact:	Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up, and seek medical assistance.
Ingestion:	Keep calm. NEVER induce vomiting.
Inhalation:	Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

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

Delayed / immediate effects: No known acute or delayed effects from exposure to the product.

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

Immediate / special treatment:	In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.
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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:	Extinguisher powder or CO2. In case of more serious fires, also alcohol-resistant foam and water spray.
Unsuitable extinguishing media:	Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2. Special hazards arising from the substance or mixture

Exposure hazards:	Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form: carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.
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5.3. Advice for fire-fighters

Advice for fire-fighters:	Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.
Fire protection equipment:	According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions:	Refer to section 8 of SDS for personal protection details.
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6.2. Environmental precautions

Environmental precautions:	Product not classified as hazardous for the environment, avoid spillage as much as possible.
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6.3. Methods and material for containment and cleaning up

Clean-up procedures:	The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act various days until no further reaction is produced.
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6.4. Reference to other sections

Reference to other sections:	For exposure control and individual protection measures, see section 8. For later elimination of waste, follow the recommendations under section 13.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Handling requirements:

The product does not require special handling measures, the following general measures are recommended: For personal protection, see section 8. Never use pressure to empty the containers. They are not pressure-resistant containers. In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety. Keep the product in containers made of a material identical to the original.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions:

The product does not require special storage measures. As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided. Keep away from oxidising agents and from highly acidic or alkaline materials. Store the containers between 5 and 35°C, in a dry and well-ventilated place. Store according to local legislation. Observe indications on the label. The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3. Specific end use(s)

Specific end use(s):

Raw mineral, Technological Additive for Animal Feed, Absorbent, Animal Bedding, Agro, Water treatment.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hazardous ingredients:

QUARTZ (SiO₂)

Workplace exposure limits:

Respirable dust:

Country	8 hour TWA	15 min. STEL	8 hour TWA	15 min. STEL
EU ¹ , UK ² , Eire ³	0.1 mg/m ³	-	-	-
USA ⁴ (Cal/OSHA)	-	-	0.05 mg/m ³ , 0.3 mg/m ³ (Total Dust)	-
USA ⁵ (NIOSH)	-	-	Potential occupational carcinogens 0.05 mg/m ³ lowest feasible concentration (LFC).	-
USA ⁶ (OSHA)	-	-	(Total Dust) 30 mg/m ³ /(%SiO ₂ +2)	-

¹ According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).

² According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive. ³ According Code of Practice for the Safety, Health and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).

⁴ California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).

⁵ According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).

⁶ According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values.

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable quartz, respirable cristobalite).

A European Binding OEL (Occupational Exposure Limit) for respirable crystalline silica dust is set at 0.1 mg/m³ in the Directive (EU) 2017/2398, measured as an 8-hour TWA (Time Weighted Average)

8.2. Exposure controls

Protective equipment:



Engineering measures:	Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.
Respiratory equipment:	<p>PPE: Particle filter mask. Characteristics: «CE» marking, category III. Made of filtering material, it covers nose, mouth and chin. CEN standards: EN 149 Maintenance: Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use. Observations: Does not protect worker unless properly adjusted. Follow the manufacturer's instructions regarding suitable use of the equipment. Filter Type needed: P2</p>
Hand protection:	<p>PPE: Protective gloves. Characteristics: «CE» marking, category II. CEN standards: EN 374-1, EN 374-2, EN 374-3, EN 420 Maintenance: Keep in a dry place, away from any sources of heat, and avoid exposure to sunlight as much as possible. Do not make any changes to the gloves that may alter their resistance, or apply paints, solvents or adhesives. Observations: Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands. Material: PVC (polyvinyl chloride) Breakthrough time (min.): > 480 Material thickness (mm): 0,35</p>
Eye/face protection:	<p>PPE: Protective goggles against particle impacts. Characteristics: «CE» marking, category II. Eye protector against dust and smoke. CEN standards: EN 165, EN 166, EN 167, EN 168 Maintenance: Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions. Observations: Some signs of wear and tear include: yellow colouring of the lenses, superficial scratching of the lenses, scraping etc.</p>
Skin protection:	<p>PPE: Work footwear. Characteristics: «CE» marking, category II. CEN standards: EN ISO 13287, EN 20347 Maintenance: This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people. Observations: Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident.</p>

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Granules
Colour:	Cream to greyish
Odour:	Odourless
pH:	8-9
Inflammability (solid, gas):	Non flammable
Relative density:	2.2
Solubility(ies):	Insoluble in water
Explosive properties:	Non explosive

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity: The product does not present hazards by their reactivity.

10.2. Chemical stability

Chemical stability: Stable under the recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous reactions: The product does not present possibility of hazardous reactions.

10.4. Conditions to avoid

Conditions to avoid: Avoid any improper handling.

10.5. Incompatible materials

Materials to avoid: Keep away from oxidising agents and from highly alkaline or acidic materials in order to prevent exothermic reactions.

10.6. Hazardous decomposition products

Haz. decomp. products: No decomposition if used for the intended uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on toxicological acute effects: There are no tested data available on the product. Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin. Splatters in the eyes can cause irritation and reversible damage.
 Individual particle length of this attapulgite is shorter than 5µm.
 IARC has classified attapulgite dust (fibres below 5µm) as class 3 ("Cannot be classified as to carcinogenicity to Humans). This product may contain quartz (crystalline silica). In 1997, IARC concluded that the respirable fraction of crystalline silica inhaled from occupational sources can cause lung cancer in humans. However, it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated (IARC Monographs, Vol 68)

SECTION 12. Ecological information

12.1. Toxicity

Ecotoxicity values: There is no information available on the biodegradability of the substances present.

12.2. Persistence and degradability

Persistence and degradability: There is no information available on the degradability of the substances present.

12.3. Bioaccumulative potential

Bioaccumulative potential: No information is available regarding the bioaccumulation.

12.4. Mobility in soil

Mobility: No information is available about the mobility in soil. The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

12.5. Results of PBT and vPvB assessment

PBT identification: No information available.

12.6. Other adverse effects

Other adverse effects: No information is available about other adverse effects for the environment.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Disposal operations:

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.
 Follow the provisions of Directive 2008/98/EC regarding waste management. Waste classification according to the European Waste Catalogue:
 01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS
 01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 09 waste sand and clays
 Method of treatment according to Directive 2008/98/EC:
 Disposal: D13 Blending or mixing prior to submission to any of the operations numbered D 1 to D 12

SECTION 14: Transport Information

Transport class:

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

SECTION 15: Regulatory Information

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

Specific regulations:

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.
 Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.
 The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.
 Kind of pollutant for the water (Germany): Not dangerous. (Autoclassified according to the AwSV Regulations)

15.2. Chemical safety assessment

Chemical safety assessment:

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: Other Information

Other information:

This safety data sheet is prepared in accordance with Commission Regulation (EU) No 2015/830.

Legal disclaimer:

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.