

KU63 PREMIUM ALGANITE GRANULES

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Trade name: KU63 INDUSTRIAL GRANULES

Article number: KU63

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

Details of the supplier of the safety data sheet

Manufacturer/Supplier: Tygris Industrial

Unit 31

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Further information obtainable from:

Technical Department

Emergency telephone

number:

Tel +44 (0) 1294 311 066

2. Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/200

The substance is not classified according to the CLP regulations.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC None

Information concerning particular hazards for human and environment

No hazards to be particularly mentioned

3. Composition/information on ingredients

3.1 Substances CAS No. Description

93685-99-5 Oil shale, thermal processing residue

EC number 297-648-1

Additional information This product is UVCB substance

Components CAS: 14808-60-7 EINECS: 238-878-4

Quartz (SiO2) <3% CAS 14808-60-7 EINECS 238-878-4

SVHC None



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4. First aid measures

4.1. Description of first aid measures

General information No special measures required

After inhalation Supply fresh air; consult doctor in case of complaints

After skin contact Generally the product does not irritate the skin. Rinse with warm water. If skin

irritation continues, consult a doctor.

After eye contact Rinse opened eye for several minutes under running water. If symptoms persist,

consult a doctor

After swallowing Rinse out mouth and then drink plenty of water. If symptoms persist consult

doctor. NOTE: Never give an unconscious person anything to drink

4.2 Most important symptoms and effects, both

acute and delayed

No further relevant information available

4.3 Indication of any immediate medical attention and special treatment

needed

No further relevant information available

5. Firefighting measures

5.1 Extinguishing media Suitable extinguishing

agents

The product is not flammable.

Use fire extinguishing methods suitable to surrounding conditions

For safety reasons unsuitable extinguishing

agents

None

5.3 Advice for firefighters

Protective equipment

Wear fully protective suit.

Mouth respiratory protective device

Additional information Collect contaminated fire fighting water separately. It must not enter the sewage

system

6. Accidental release measures

6.1. Personal precautions. protective equipment and emergency procedures

Avoid formation of dust, Ensure adequate ventilation. Wear protective clothing. Use respiratory protective device against the effects of fumes/dust/aerosol.

6.2 Environmental precautions

Do not allow product to reach sewage system or any water course

6.3 Methods and material for Pick up mechanically containment and cleaning

6.4 Reference to other sections

See Section 8 for information on personal protection equipment

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7. Handling and storage

7.1 Precautions for safe

handling

Prevent formation of dust.

Ensure good ventilation/exhaustion at the workplace

Information about fire - and

explosion protection

No special measures required. The product is not flammable

7.2 Conditions for safe storage, including any

incompatibilities

Requirements to be met by storerooms and receptacles Store in dry conditions.

Protect from humidity and water.

Information about storage in Store away from water.

one common storage facility Do not store together with oxidizing and acidic materials

Further information about storage conditions

None

7.3 Specific end use(s)

No further relevant information available

8. Exposure controls/personal protection

Additional information about design of technical

facilities

Ventilation must be sufficient to maintain TLV-TWA below 3 mg/m³, respirable particles, and 10 mg/m³, inhalable particles [ACGIH recommendation for Particles (Insoluble or poorly soluble). Not Otherwise Specified (PNOS)]

8.1 Control parameters Ingredients with limit values that require monitoring at the workplace

Not required

Not applicable

DNELs PNECs

PNEC aqua (freshwater): 0.1 mg/L PNEC aqua (marine water): 0.01 mg/L PNEC agua (intermittent releases): 1 mg/L

8.2 Exposure controls General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Do not eat or drink while working. Avoid contact with the eyes and skin. Wash hands before breaks and at the end of work

Respiratory protection

Use suitable respiratory protective device in case of insufficient ventilation

Protection of hands

Protective gloves

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer

Penetration time of glove

material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection Safety glasses

Body protection

Light weight protective clothing

Limitation and supervision of exposure into the

environment

Based on all data available this product is not considered to pose a risk to the

environment

Risk management measures Do not allow undiluted product or large quantities of it to reach ground water,

water course or sewagesystem.



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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form Granules

Colour: Grey

Brown

Odour: Odourless

pH-value (10 g/l) at 20 °C 10,8

1050-1200 °C (OECD 102) Melting point/Melting range

Solubility(ies) Insoluble in water

Boiling point/Boiling range Undetermined

Not applicable. This product is inorganic substance Flash point

Flammability (solid,

gaseous):

Product is not flammable. (based on molecular structure)

Self-igniting Not determined

Danger of explosion Product does not present an explosion hazard. (based on molecular structure)

Explosion limits None

Oxidizing properties None. The substance does not contain any groups associated with oxidising

properties.

Not determined. (melting point > 300) Vapour pressure

Bulk density at 20 °C: 690 kg/m3

Solubility in / Miscibility with < 1 g/l (OECD 105)

water at 20 °C:

Partition coefficient Not applicable

(n-octanol/water): This substance is inorganic chemical.

Viscosity Not applicable. This product is solid. Viscosity is only relevant to liquids.

9.2 Other information Granulometry:

d10=2200 µm d50=3300 µm d90=5000 µm



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10. Stability and reactivity

10.1 Reactivity Reacts with strong acids and oxidizing agents

No decomposition if used and stored according to specifications. 10.2 Chemical stability

10.3 Possibility of hazardous reactions None

10.4 Conditions to avoid Water 10.5 Incompatible materials Water 10.6 Hazardous None

decomposition products

Additional information This product is hygroscopic

11. Toxicological information

11.1 Information on toxicological effects

LD/LC50 values relevant for No reliable study with this product is present. This study is conducted on an

analogous substance. (read-across) no classification is necessary

68131-74-8 Fluidized Bed Combustion (FBC) Fly Ash

Oral LD50 >2000 mg/kg (rat) (OECD 423)

Specific symptoms in biological assay

classification

This product is not considered to present an inhalation risk. (MMAD > 2000 µm)

Effect Species Method

Irritation of skin OECD 404 not irritating (rabbit) Irritation of eyes OECD 437 not irritating (rabbit)

6 8131-74-8 Fluidized Bed Combustion (FBC) Fly Ash Sensitisation OECD 429 not sensitising (mouse)

Additional toxicological

information

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

Repeated dose toxicity

No classification is necessary. This product is not considered to present an inhalation risk. MMAD > 2000 µm. Respirable Crystalline Silica: % SiO2

crystalline in dust <<1%

CMR effects (carcinogenity,

reproduction) Mutagenicity

None

mutagenicity and toxicity for Acc. to OECD 471, OECD 476, OECD 487 tests

Carcinogenicity

No data available (no carcinogenicity study needs to be performed as this

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substance is not genotoxic)

Toxicity for reproduction

no classification is necessary



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12. Ecological information

12.1 Toxicity

Aquatic toxicity EC50/21 d (static) 39,3 mg/l (Daphnia magna) (OECD 211, freshwater)

NOEC (21 d): 1mg/L LOEC (21 d): 3.2 mg/L

EC50/72 h (static) 82,7 mg/L (algae) (OECD 201, freshwater)

NOEC (72 h): 3.2 mg/L LOEC (72 h): 10 mg/L

LC50/96 h (static) >100 mg/L (fish Oncorhynchus mykiss) (OECD 203,

freshwater) NOEC > 100 mg/L

12.2 Persistence and degradability

The substance is inorganic; therefore no biodegradation tests are applicable. Based on previous experience, this product is inert and non-degradable.

12.3 Bioaccumulative potential

Does not accumulate in organisms Low potential for bioaccumulation (based on substance properties)

12.4 Mobility in soil Low potential for adsorption (based on substance properties).

Behaviour in sewage processing plants: Type of test Effective concentration Method Assessment

EC50/3 h (static) >1000 mg/L (activated sludge) (OECD 209, freshwater)

NOEC (3 h): >1000 mg/L

12.5 Results of PBT and

vPvB assessment

No assessment is required for inorganic substances

13. Disposal considerations

13.1 Waste treatment methods

Recommendation Disposal must be made according to official regulations.

Smaller quantities can be disposed of with household waste

Uncleaned packaging:

Packaging may be reused or recycled after cleaning.

Recommendation

Disposal must be made in accordance with Local Authority requirements

Recommended cleansing

agents

Water, if necessary together with cleansing agents



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14. Transport information

14.1 UN-Number DOT, ADR, IMDG, IATA None

14.2 UN proper shipping

None

name

DOT, ADR, IMDG, IATA

14.3 Transport hazard

None

class(es)

DOT, ADR, IMDG, IATA

Class

14.4 Packing group DOT, ADR, IMDG, IATA None

14.5 Environmental hazards: No

Marine pollutant

14.6 Special precautions for Not applicable

user

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC

None

Code

Transport/Additional

information

Not dangerous according to the above specifications

UN "Model Regulation":

None



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15. Regulatory information

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

Labelling according to Regulation (EC) No

1272/2008

Hazard pictograms

Signal word Void

Hazard statements Void

Additional classification according to Decree on Hazardous Materials, Annex

Substances of very high concern (SVHC) according

to REACH, Article 57

Registration status (Chemical Inventories

listing):

United States (TSCA): listed

Canada (DSL): listed Australia (AICS): listed

36.0.25

Void

Void

None

None

Japan (ENCS): listed Korea (KECI) : listed Philippines (PICCS): listed

NTP (National Toxicology Program): Substance is not listed

IARC (International Agency for Research on Cancer): Substance is not listed

15.2 Chemical safety

assessment:

A Chemical Safety Assessment has been carried out.

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16. Other information

Abbreviations and acronyms

RID: Règlement international concernant le transport des marchandises

dangereuses par chemin de fer (Regulations Concerning the

International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport

Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization"

(ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route

(European Agreement concerning the International

Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NOEC: No Observed Effect Concentration LOEC: Lowest Observed Effect Concentration

UVCB: Substances of Unknown or Variable Composition, Complex reaction

products or Biological Materials

MMAD: Mass Median Aerodynamic Diameter

Sources

REACH Dossier, 2010 REACH CSR, 2010