SECTION 1. Identification of the substance/mixture and of the company/enterprise

1.1. Product identifier

Product name : SILITE MINI SPEED
Product code: refer to sales department
Chemical Name: CAS: 93763-70-3

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

Filtration adjuvants
Sectors of use:
Manufacture of food products[SU4]
Product category:
Technological adjuvant for limited food use

Not recommended uses
Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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AEB OCEANIA PTY LTD
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SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

CAS 93763-70-3

2.1.1 Classification according to Regulation (EC) No 1272/2008:

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Pictograms:
None

Hazard Class and Category Code(s):
Non hazardous

Hazard statement Code(s):
Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):
None

Hazard statement Code(s):
Non hazardous

Supplemental Hazard statement Code(s):
not applicable

Precautionary statements:
None in particular.

2.3. Other hazards

The substance / mixture does NOT contain substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

Depending on the use and handling (milling, drying, packaging), dust can be generated in the environment. The powder contains respirable crystalline silica. Inhaling dust containing crystalline silica over a long period of time can cause adverse effects on the lungs. Crystalline silica (cristobalite) is a known cause of silicosis, a progressive and in some cases very serious lung disease. Perlite contains less than 0.1% crystalline silica. Using the product in the manner indicated minimizes the risk of exposure to respirable crystalline silica.
Do not ingest - Keep out of reach of children
Not ecotoxic. Use according to good working practices, avoiding product dispersion

SECTION 3. Composition/information on ingredients

3.1 Substances

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
PERLITE substance for which there are Community workplace exposure limits	100%	NC	ND	93763-70-3	ND	NR

3.2 Mixtures

Irrilevant

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:
Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product).:
Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product).:
Wash immediately and thorougly with running water for at least 10 minutes.

Ingestion:
Not hazardous. It’s possible to give activated charcoal in water or medicinal mineral vaseline oil.

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

Contact with the eyes can cause redness and irritation due to the mechanical effects of the dust

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

No data available.

SECTION 5. Firefighting measures

5.1. Extinguishing media

Suggested extinguishing media:
Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:
Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus
Safety helmet and full protective clothing.
The water spray can be used to protect the people involved in the extinction.
You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.
Keep containers cool with water spray

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:
Leave the area surrounding the spill or release. Do not smoke
Wear gloves and protective clothing

6.1.2 For emergency responders:
Avoid the formation of dust.
Avoid inhalation of dust.
Ensure proper ventilation.
Eliminate all naked flames and possible sources of ignition. Not smoking.
Provide adequate ventilation.
Evacuate the danger area and finally consult an expert.

6.2. Environmental precautions

Contain spills
Inform the competent authorities.
Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:
Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:
After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products:
Handle with Care. Store in a clean, dry and ventilated place away from heat sources and direct sunlight. Keep the container tightly closed, protected from humidity and strong odors

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

==========
Related to contained substances:

PERLITE
Crystalline silica
Limit value - Eight hours
(ppm)/(mg/m³)
Australia: x/0,1 (1)
Belgio: x/0,05
Canada – Ontario: x/0,05 (1)
South Korea: x/0,05 (respirable dust)
Dinamarca: x/0,15
Spain: x/0,05 (1)
France: x/0,05 (respirable aerosol)
The Netherlands: x/0,075 (respirable dust)
Hungary: x/0,15 (respirable aerosol)
Ireland: x/0,1 (1)
New Zealand: x/0,1 (1)
Singapore: x/0,05 (respirable aerosol)
Sweden: x/0,05 (1)
Switzerland: x/0,15 (respirable aerosol) MAK
USA – NIOSH: x/0,05
USA – OSHA: x/0,5 (30/(% silica+2))

Limit value - Short term
(ppm)/(mg/m³)

Australia: x/x
Belgio: x/x
Canada – Ontario: x/x
South Korea: x/x
Denmark: x/0,3
Spain: x/x
France: x/x
The Netherlands: x/x
Hungary: x/x
Ireland: x/x
New Zealand: x/x
Singapore: x/x
Sweden: x/x
Switzerland: x/x
USA – NIOSH: x/x
USA – OSHA: x/x

Note
Australia: (1) respirable dust
Canada – Ontario: (1) respirable aerosol
Spain: (1) respirable fraction (INSHT 2018).
Francia: Negrita: Regulatory restrictive limit values.
Irlanda: (1) respirable fraction
Nueva Zelanda: (1) respirable aerosol
Suecia: (1) respirable dust

PERLITE
Dust
Limit value - Eight hours
(ppm)/(mg/m³)

Australia: x/10(1)
Austria: x/5 inhalable aerosol
Belgio: x/10
Canada - Ontario: x/10 (1)
Canada - Quebec: x/10 (total) - 5 (respirable fraction)
South Korea: x/10
Latvia: x/4 (1)
People's Republic of China: x/8 (1) - 4 (2)
Singapore: x/10
USA - NIOSH: x/10 total dust- 5 respirable.

Limit value - Short term
(ppm)/(mg/m³)

Australia: x/x
Austria: x/10 inhalable aerosol
Belgio: x/x
Canada - Ontario: x/x
Canada - Quebec: x/x
South Korea: x/x
Latvia: x/x
People's Republic of China: x/x
Singapore: x/x
USA - NIOSH: x/x

Note:
Australia: (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Canadá - Ontario: (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.
Latvia: (1) and tuff, pemza.
People's Republic of China: (1) inhalable fraction (2) respirable fraction

Perlite has not been classified separately by the Occupational Safety and Health Administration (OSHA). No However, the product contains crystalline silica in the form of quartz powder below 0.1%. In 2011 the Agency International Cancer Research Agency (IARC) concluded that crystalline silica in the form of quartz powder or cristobalite is carcinogenic to humans (Group 1).

Substance:
PERLITE
Dust
DNEL
Systemic effects Long term Workers inhalation = 37 (mg/m3)
Systemic effects Long term Workers dermal = 50 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 18,3 (mg/m3)
Systemic effects Long term Consumers dermal = 25 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 25 (mg/kg bw/day)
Local effects Long term Workers inhalation = 18 (mg/m3)
Local effects Long term Consumers inhalation = 9 (mg/m3)
PNEC
Sweet water = 0,74 (mg/l)
sediment Sweet water = 2,74 (mg/kg/sediment)
Sea water = 0,074 (mg/l)
sediment Sea water = 0,274 (mg/kg/sediment)
intermittent emissions = 10 (mg/l)
STP = 500 (mg/l)
ground = 0,15 (mg/kg ground)

Substance
PERLITE
Crystalline silica
DNEL
Systemic effects Long term Workers inhalation = 0,05 (mg/m3)
Systemic effects Long term Consumers inhalation = 0,05 (mg/m3)
ystemic effects Long term Consumers oral = 18,7 (mg/kg pc/día)
PNEC
STP = 100 (mg/l)

8.2. Exposure controls

Appropriate engineering controls:
Manufacture of food products:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection
Not needed for normal use. Wear protective goggles (EN 166).

(b) Skin protection

(i) Hand protection
Not needed for normal use, unless otherwise provided by the employer

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use. During manual operations in case of insufficient ventilation, use suitable mask (EN 405) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic

(d) Thermal hazards
No hazard to report

Environmental exposure controls:
Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	Fine powder	
Colour	White	
Odour	Odorless	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
pH	7.0 ± 1.0 (20ºC; sol. 10%)	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	ASTM D92
Evaporation rate	not determined as considered not relevant for the characterization of the product	
Flammability (solid, gas)	not determined as considered not relevant for the characterization of the product	
Upper/lower flammability or explosive limits	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Vapour density	not determined as considered not relevant for the characterization of the product	
Relative density	0,100 - 0,125 (20ºC)	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	insoluble	
Partition coefficient: n-octanol/water	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
Viscosity	not determined as considered not relevant for the characterization of the product	
Explosive properties	not determined as considered not relevant for the characterization of the product	
Oxidising properties	not determined as considered not relevant for the characterization of the product	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

None in particular

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

ATE oral = ∞
ATE dermal = ∞

ATE inhal = ∞

(a) acute toxicity: PERLITE: Ingestion - LD50 rat (mg / kg / 24h bw): 12960
This product has a low toxicity. It can only be harmful to health in large quantities. High concentrations of dust can cause respiratory irritation.
(b) skin corrosion/irritationPERLITE: Not corrosive
PERLITE: Not irritating
(c) serious eye damage/irritation: PERLITE: Not corrosive
PERLITE: Not irritating
(d) respiratory or skin sensitization: PERLITE: Not sensitizing. However, the product may cause slight irritation to the first part of the respiratory tract.
(e) germ cell mutagenicity: PERLITE: Not mutagenic
(f) carcinogenicity: PERLITE: Not carcinogenic
(g) reproductive toxicity: PERLITE: Not toxic for reproduction
(h) specific target organ toxicity (STOT) single exposure: PERLITE: Non toxic
(i) specific target organ toxicity (STOT) repeated exposurePERLITE: Non toxic by repeated exposure
(j) aspiration hazard: PERLITE: Not dangerous for aspiration.

Health hazards: Eye contact: Accidental contact of the product with the eyes may cause irritation. Skin contact: The product is not an irritant. Repeated and prolonged direct contact can degrease and irritate the skin causing dermatitis in some cases. Ingestion: The ingested product can cause irritation of the mucous membranes of the throat and digestive system with consequent abnormal digestive symptoms and intestinal disorders. Inhalation: Prolonged exposure to vapors or mists of the product can cause irritation to the respiratory tract.

==========
Related to contained substances:
PERLITE:
Health Risks Eye Exposure: Accidental contact of the product with the eyes may cause irritation. Skin exposure: the product is not irritating. Repeated and prolonged direct contact can dry and irritate the skin, causing dermatitis in some cases. Ingestion: ingestion of the product may cause irritation of the mucous membranes of the throat and digestive system, resulting in abnormal digestive symptoms and intestinal disorders. Inhalation: Prolonged exposure to vapors or mists from the product may cause irritation of the airways

11.2. Information on other hazards

No data available.

SECTION 12. Ecological information

12.1. Toxicity

Not ecotoxic. Use according to good working practices, avoiding product dispersion

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

Not relevant (inorganic substance)

12.3. Bioaccumulative potential

Not relevant (inorganic substance)

12.4. Mobility in soil

Not significant

12.5. Results of PBT and vPvB assessment

Not classified as PBT and vPvB

12.6. Endocrine disrupting properties

No data available.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information

14.1. UN number

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

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

Transport in bulk is not foreseen

SECTION 15. Regulatory information

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

Restrictions relating to the product or contained substances (All. XVII Reg. EC 1907/2006): not applicable
Substances in Candidate List (art. 59 Reg. EC 1907/2006): the product does not contain SVHC
Substances subject to authorisation (Ann. XIV Reg. CEC 1907/2006): the product does not contain SVHC
Reg. EC 648/04: see 2.2
Reg. (EU) n. 1169/2011: see 2.2
Reg (UE) 528/2012: see.to 2.2

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Main normative references:
Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.
Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Regulation (EC) n. 648 of 31/03/04 (on detergents) et seq.
Regulation (UE) n. 1169/2011 (on the provision of food information to consumers)
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.
Regulation (UE) 528/2012 (Biocides) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable
n.d.: not available
ADR: Accord europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen Demand
CAS: Chemical Abstract Service number
CAP: Centre AntiPoison
CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50
DL50/LD50: Lethal Dose 50
COD: Chemical Oxygen Demand
DNEL: Derived No Effect Level
EC50: half maximal Effective Concentration
ERC: Enviroment Release Classes
EU/UE: European Union
IATA: International Air Transport Association
ICAO: International Civil Aviation Organization
IMDG: International Maritime Dangerous Goods code
Kow: Octanol water partition coefficient
NOEC: No Observed Effect Concentration
OEL: Occupational Exposure Limit
PBT: Persistent Bioaccumulative and Toxic
PC: Product Categories
PNEC: Predicted No Effect Concentration
PROC: Process Categories
RID: Règlement concernent le transport International ferroviaire des merchandises dangereuses (Regulations concerning International rail transport of dangerous goods)
STOT: Target Organ Systemic Toxicity
STOT (RE): Repeated Exposure
STOT (SE): Single Exposure
STP: Sewage Treatment Plants
SU: Sector of Use
SVCH: Substance of Very High Concern
TLV: Threshold Limit Value
vPvB: Very Persistent Very Bioaccumulative

References and Sources:
• ECHA Registered Substances:
• https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances
• SDS supplier
• GESTIS DNEL Database: http://www.dguv.de/ifa/gestis/gestis-dnel-datenbank/index-2.jsp
• GESTIS International Limit Value: http://limitvalue.ifa.dguv.de

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*** this tab annuls and replaces any previous edition. (IIXX)

Changes to the previous edition: 1.1, 1.2, 2.1, 2.3, 3.1, 4.2, 6.1, 6.3, 7.1, 7.2, 7.3, 8.1, 8.2, 9.1, 10.2, 10.5, 11, 12, 15.1, 16.1. issued in according to Reg. UE 878/20