

CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (Lu) ITALY
tel. +39 0584 383694 fax +39 0584 395182
www.cecchi.it info@cecchi.it



ADDITIVE A20 MICROSIELD – SAFETY DATA SHEET september 2016 – n° batch 252-AF

ADDITIVE A20 MICROSIELD

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

1.1 Product identifier

| | |
|-------------------------------|-------------------------|
| Trade name | ADDITIVE A20 MICROSIELD |
| Substance name | Graphite |
| REACH registration no. | 01-2119486977-12 |
| Identification numbers | |
| CAS no. | 7782-42-5 |
| EC no. | 231-955-3 |

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

Relevant identified uses of the substance or mixture

Product for boating and for professional use

Uses advised against

None known

1.3. Details of the supplier of the safety data sheet

| | |
|----------------------|-------------------------------|
| Name | CECCHI GUSTAVO & C. S.R.L. |
| Full address | Via Coppino 253 |
| District and Country | 55049 VIAREGGIO (LU) Italy |
| | Tel. +39 0584 383694 |
| | Fax +39 0584 395182 |

e-mail address of the competent person
responsible for the Safety Data Sheet info@cecchi.it

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification information

This product does not meet the classification and labelling criteria given in the Regulation (EC) No 1272/2008 (CLP).

This product does not meet the classification and labelling criteria given in the Dangerous Substances Directive 67/548/EC (DSD)

2.2 Label elements

Not relevant

2.3 Other hazards

PBT assessment

The product is not considered to be a PBT

vPvB assessment

The product is not considered to be a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Chemical characterization

| | |
|----------------|---------------------|
| Substance name | Graphite (> 99,5 %) |
|----------------|---------------------|

Identification numbers

| | |
|---------|-----------|
| CAS no. | 7782-42-5 |
| EC no. | 231-955-3 |

3.2 Mixtures

Not applicable. The product is not a mixture.

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SECTION 4: First aid measures

4.1 Description of first aid measures

General information

In case of persisting adverse effects, consult a physician. Change contaminated clothing.

After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air.

After skin contact

When in contact with the skin, clean with soap and water.

After eye contact

Remove contact lenses. Separate eyelids, wash the eyes thoroughly with water (15 min.).

After ingestion

Rinse out mouth and give plenty of water to drink. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam; Carbon dioxide; Extinguishing powder; Water spray jet; Sand

Unsuitable extinguishing media

High power water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3 Advice for firefighters

Use self-contained breathing apparatus. Wear protective clothing.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Avoid dust formation. High risk of slipping due to leakage/spillage of product.

For emergency responders

Personal protective equipment (PPE) - see Section 8. In case of emergency, use of personal protective equipment [DIN EN 469, EN 12021].

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

Take up with dust-binding material or using a suitable vacuum cleaner. When picked up, treat material as prescribed under heading "Disposal considerations".

6.4 Reference to other sections

No data available.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Provide good ventilation of working area (local exhaust ventilation, if necessary). If workplace exposure limits are exceeded, respiratory protection approved for this particular job must be worn.

General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove contaminated clothing. Wash hands before breaks and after work. Do not inhale dust. Provide eye wash fountain in work area.

Advice on protection against fire and explosion

Under certain circumstances fine dust clouds may form explosive mixtures with air. Take precautionary measures against static charges. Keep away from sources of heat and ignition. Dust should be aspirated

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immediately on-the-spot.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep container tightly closed and dry.

Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

Advice on storage assembly

None known

7.3 Specific end use(s)

No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limit values

| No | Substance name | CAS no. | EC no. |
|----|----------------|---------|--------|
| 1 | | DUST | |

List of approved workplace exposure limits (WELs) / EH40

total inhalable dust

| | | |
|-----|----|-------------------|
| TWA | 10 | mg/m ³ |
|-----|----|-------------------|

List of approved workplace exposure limits (WELs) / EH40

respirable dust

| | | |
|-----|---|-------------------|
| TWA | 4 | mg/m ³ |
|-----|---|-------------------|

DNEL and PNEC values

DNEL values (worker)

| No | Substance name | Route of exposure | Exposure time | Effect | CAS / EC no | Value |
|----|----------------|-------------------|---------------------|--------|------------------------|-------------------|
| 1 | Graphite | | | | 7782-42-5 231-955-3 | |
| | inhalative | | Long term (chronic) | local | 1.2 | mg/m ³ |

DNEL value (consumer)

| No | Substance name | Route of exposure | Exposure time | Effect | CAS / EC no | Value |
|----|----------------|-------------------|---------------------|----------|------------------------|-------------------|
| 1 | Graphite | | | | 7782-42-5 231-955-3 | |
| | oral | | Long term (chronic) | systemic | 813 | mg/kg/day |
| | inhalative | | Long term (chronic) | local | 0.3 | mg/m ³ |

Other information

The DNEL value (inhalation) is applicable for respirable fractions of graphite dust that can reach the alveolar regions of the lung.

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of dust formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified. Dust mask

Respirator

FFP2 (EN 149)

Eye / face protection

Safety glasses with side protection shield (EN 166)

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Hand protection

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form/Colour

Powder
grey to black

Odour

odourless

Odour threshold

No data available

pH value

Not applicable
n.a.

Boiling point / boiling range

No data available

Melting point / melting range

Value > 3000 °C
Method OECD 102

Decomposition point / decomposition range

No data available

Flash point

Not applicable
n.a.

Ignition temperature

Value > 500 °C

Auto-ignition temperature

No data available

Oxidising properties

Inorganic substance not containing oxygen or halogen atoms.

Explosive properties

Non-combustible. Contains no chemical groups associated with explosive properties.
The minimum ignition energy of fine dusts is >1 J.

Flammability (solid, gas)

The product is NOT highly flammable according to Regulation (EG) Nr. 440/2008, method EC A.10 (flammability, solids)

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

Remarks Solid whose melting point is > 3000°C.

Vapour density

No data available

Evaporation rate

No data available

Relative density

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No data available

Density

| | | | |
|--------|-------|-----------|-------------------|
| Value | appr. | 2.2 | g/cm ³ |
| Method | | DIN 51901 | |

Solubility in water

| | | | |
|-------|---|-------|-----|
| Value | < | 0.001 | g/l |
|-------|---|-------|-----|

Solubility(ies)

Remarks Graphite/ carbon is however considered being insoluble in water. The relative solubility corresponds to the solubility of impurities contained in the test substance.

Partition coefficient: n-octanol/water

No data available

Viscosity

Not applicable

n.a.

9.2 Other information

Other information

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Fluorine; Chlorine trifluoride

10.6 Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

| | | | |
|---------------------------|---|---|-------|
| LD50 | > | 2000 | mg/kg |
| Species | | rat | |
| Method | | OECD 423 | |
| Source | | CSR | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

Acute dermal toxicity

No data available

Acute inhalational toxicity

| | | | |
|---------------------------|---|---|-------------------|
| LC50 | > | 2000 | mg/m ³ |
| Duration of exposure | | 4 | h |
| State of aggregation | | Dust/mist | |
| Species | | rat | |
| Method | | OECD 403 | |
| Source | | CSR | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

Skin corrosion/irritation

| | | | |
|---------------------------|--|---|--|
| Species | | rabbit | |
| Method | | OECD 404 | |
| Source | | CSR | |
| Evaluation | | non-irritant | |
| Evaluation/classification | | Based on available data, the classification criteria are not met. | |

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Serious eye damage/irritation

Species rabbit
Method OECD 405
Source CSR
Evaluation non-irritant
Evaluation/classification Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

Route of exposure respiratory tract
Species mouse
Method OECD 429
Source CSR
Evaluation non-sensitizing
Evaluation/classification Based on available data, the classification criteria are not met.

Route of exposure Skin
Species mouse
Method OECD 429
Source CSR
Evaluation non-sensitizing
Evaluation/classification Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Type of examination Bacterial Reverse Mutation Test
Method OECD 471
Evaluation negative
Evaluation/classification Based on available data, the classification criteria are not met.

Type of examination Mammalian cell gene mutation assay
Method OECD 476
Source CSR
Evaluation negative
Evaluation/classification Based on available data, the classification criteria are not met.

Type of examination Mammalian chromosome aberration test
Method OECD 473
Source CSR
Evaluation negative
Evaluation/classification Based on available data, the classification criteria are not met.

Reproduction toxicity

Method OECD 422
Source CSR
Evaluation negativ
Evaluation/classification Based on available data, the classification criteria are not met.

Carcinogenicity

Method Waiving
Source CSR
Evaluation negative
Evaluation/classification Based on available data, the classification criteria are not met.

STOT-single exposure

No data available

STOT-repeated exposure

Route of exposure oral
NOAEL 813 mg/kg bw/d

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| | |
|---------------------------|---|
| Species | rat |
| Method | OECD 422 |
| Source | CSR |
| Evaluation/classification | Based on available data, the classification criteria are not met. |
| Route of exposure | inhalative |
| NOAEC | 12 mg/m ³ |
| Species | rat |
| Method | OECD 412 |
| Source | CSR |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Aspiration hazard

Not applicable

n.a.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Contact with the skin and eyes may cause mechanical irritation. Inhalation of dusts may irritate the respiratory tract.

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish (acute)

| | |
|---------------------------|---|
| LC50 | > 100 mg/l |
| Duration of exposure | 96 h |
| Species | Danio rerio |
| Method | OECD 203 |
| Source | CSR |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Toxicity to fish (chronic)

No data available

Toxicity to Daphnia (acute)

| | |
|---------------------------|---|
| EC50 | > 100 mg/l |
| Duration of exposure | 48 h |
| Species | Daphnia magna |
| Method | OECD 202 |
| Source | CSR |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

| | |
|---------------------------|---|
| EC50 | > 100 mg/l |
| Duration of exposure | 72 h |
| Species | Pseudokirchneriella subcapitata |
| Method | OECD 201 |
| Source | CSR |
| Evaluation/classification | Based on available data, the classification criteria are not met. |

Toxicity to algae (chronic)

No data available

Bacteria toxicity

No data available

12.2 Persistence and degradability

Biodegradability

Remarks Since the substance is inorganic, a study to determine the biodegradation is not required under Reach Regulation EC/1907/2006.

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12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

PBT assessment The product is not considered to be a PBT.

vPvB assessment The product is not considered to be a vPvB.

12.6 Other adverse effects

No data available.

12.7 Other information

Other information

Do not discharge product unmonitored into the environment.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

SECTION 14: Transport information

14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

14.2 Transport IMDG

The product is not subject to IMDG regulations.

14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

14.4 Other information

The product is NOT highly flammable according to Regulation (EG) Nr. 440/2008 , method EC A.10 (flammability, solids)

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

SECTION 15: Regulatory information

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

EU regulations

Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

In accordance with the Reach regulation (EC) 1907/2006, the product does not contain any substances that are considered as subject to listing in annex XIV, inventory of substances requiring authorisation.

REACH candidate list of substances of very high concern (SVHC) for authorisation

In accordance with article 57 and article 59 of the Reach regulation (EC) 1907/2006, this substance is not considered as subject to listing in annex XIV, inventory of substances requiring authorisation ("Authorization list").

Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The substance is not subject to the provisions of annex XVII (restriction entries) of the Reach regulation (EC) 1907/2006.

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

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This substance is not subject to Part I or 2 of Annex I

National regulations

National chemical inventories

| | | |
|------------------------------------|---|----------|
| EINECS/ELINCS (European Community) | listed | |
| TSCA (USA) | listed | |
| DSL/NDSL (Canada) | DSL listed | |
| MITI/ENCS (Japan) | Exempted from listing | |
| ECL (Corea) | listed | KE-18101 |
| AICS (Australia) | listed | |
| IECSC / NEPA (China) | listed | |
| PICCS (Philippines) | listed | |
| NZIoC (New Zealand) | New Zealand: not subject to the provisions of the HSNO Act. | |
| CSNN (Taiwan) | listed | |

15.2 Chemical safety assessment

For this substance a chemical safety assessment has been carried out.

SECTION 16: Other information

Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

This information is based on our present state of knowledge and experience.

The security data sheet describes products with a view to the security requirements.

However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.