

## Material Safety data sheet according to 1907/2006/EC, Article 31

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

#### 1.1 Product identifier

• **Trade name: Aquadag Graphite ECO**

• Article number: 51-1625-0793

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

• Application of the substance / the preparation: Lubricant

• **1.3 Details of the supplier of the safety data sheet Supplier:**

Oxford Instruments NanoAnalysis

Halifax Rd, High Wycombe HP12 3SE

United Kingdom

Tel: +44 (0) 1494 442255

Further information obtainable from: Technical Support

### SECTION 2: Hazards Identification

2.1 Classification according to Regulation (EC) No 1272/2008 corrosion

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Irrit. 2 H319 Causes serious eye irritation.

• 2.2 Label elements - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

• Hazard pictograms GHS05

• Signal word Danger: Hazard statements

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

• Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read carefully and follow all instructions.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor

P321 Specific treatment (see on this label).

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

• 2.3 Other hazards

• Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

• Description: Mixture of substances listed below with nonhazardous additions.

• Dangerous components: CAS: 1336-21-6 EINECS: 215-647-6

Ammonia solution Skin Corr. 1B, H314; Aquatic Acute 1, H400 1.0%

• Additional information: For the wording of the listed hazard phrases refer to section 16

### SECTION 4: First aid measures

• General information: Immediately remove any clothing soiled by the product.

• After inhalation: No adverse effects are anticipated from inhalation.

Move to fresh air, consult doctor if complaint persists

• After skin contact: Wash with water and soap and rinse thoroughly.

• After eye contact: Rinse opened eye under running water. If symptoms persist, consult a doctor.

• After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 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

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**SECTION 5: Firefighting Measures**

5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

- 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- 5.3 Advice for firefighters

- Protective equipment: Positive pressure self-contained breathing apparatus.

**SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves. Wear protective gloves and glasses.

- 6.2 Environmental precautions: Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralising agent. Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

- 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage**

7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire - and explosion protection:

Extinguishing media: Water fog - dried resin only.

- 7.2 Conditions for safe storage, including any incompatibilities

- Storage:

- Requirements to be met by storerooms and receptacles: Store in sealed original container

- Information about storage in one common storage facility:

Storage between 5-32 degrees celcius

- Further information about storage conditions: Keep container tightly sealed.

- 7.3 Specific end use(s) Lubicant

**SECTION 8: : Exposure controls/personal protection**

8.1 Control parameters

- Additional information about design of technical facilities: No further data; see item 7.

- Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists valid during the making were used as basis.

- 8.2 Exposure controls

- Personal protective equipment:

- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

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## SECTION 8: : Exposure controls/personal protection

### Protection of hands: Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- **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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

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

- **Eye protection:** Tightly sealed goggles

- **Body protection:** Suitable protective clothing

Suitable protective clothing should conform to EN 14605 for liquid splashes and EN 13982 for dusts

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- General Information
- Appearance: Form: Fluid Colour: Black
- Odour: Ammonia-like
- Odour threshold: Not determined.
- pH-value at 20 °C: 11
- Change in condition Melting point/freezing point: Undetermined.
- Initial boiling point and boiling range: Undetermined.
- Flash point: Not applicable.
- Flammability (solid, gas): Not applicable.
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product does not present an explosion hazard.
- Explosion limits: Lower: Not determined. Upper: Not determined.
- Vapour pressure: Not determined.
- Density at 20 °C: 0.89 g/cm<sup>3</sup>
- Relative density Not determined.
- Vapour density Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with water: Fully miscible.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity: Dynamic at 20 °C: 1 mPas
- Kinematic: Not determined.
- Solvent content:
- VOC (EC) 0.00 % Solids content: 99.5 %

## SECTION 10: Stability and reactivity

### 10.1 Reactivity Reaction with strong acids

- 10.2 Chemical stability Stable under recommended storage conditions

- Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions See section 10.1

- 10.4 Conditions to avoid No further relevant information available.

- 10.5 Incompatible materials: See section 10.1

- 10.6 Hazardous decomposition products:

None if used for intended purpose. In case of fire toxic gases can be released

## SECTION 11: Toxicological Information

### 11.1 Information on toxicological effects

- Acute toxicity Based on available data, the classification criteria are not met.

- Specific symptoms in biological assay: Skin corrosion/irritation

Causes severe skin burns and eye damage.

- Serious eye damage/irritation Causes serious eye irritation.

- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

- Additional toxicological information:

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**SECTION 11: Toxicological Information continued....**

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

**SECTION 12: Ecological Information**

Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil Ammonia (aq) - LogPow = -1.14

EU Method A.8 - Partial coefficient

- Additional ecological information: General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or unneutralised.

- 12.5 Results of PBT and vPvB assessment PBT: Not applicable.
- vPvB: Not applicable. 12.6 Other adverse effects

If acidic or alkaline products are discharged into wastewater installations care must be taken that the discharged wastewater has a pH in the range of 6-10, as pH variations could cause disorders in wastewater channels and biological sewage treatment plants.

The local discharge regulations take precedence

**SECTION 13: Disposal Considerations**

13.1 Waste treatment methods

- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- Waste disposal key: Waste code: 110199

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users.

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents

**SECTION 14: Transport Information**

4.1 UN-Number ADR, ADN, IMDG, IATA Void

- 14.2 UN proper shipping name ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA
- Class Void 14.4 Packing group ADR, IMDG, IATA Void
- 14.5 Environmental hazards: Not applicable. 14.6 Special precautions for user Not applicable.
- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.
- UN "Model Regulation": Void SECTION 15: Regulatory information

**SECTION 15: Ecological information**

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

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out

**SECTION 16: Other information**

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.