

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: Kemet Diamond Compound**

• Article number: 51-1625-0441, 51-1625-0442, 51-1625-0443, 51-1625-0444, 51-1625-0445

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

• Application of the substance / the preparation: No data available.

• **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 of the substance or mixture

• Classification according to Regulation (EC) No 1272/2008

environment: Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

Acute Tox. 4 H332 Harmful if inhaled.

Skin Irrit. 2 H315 Causes skin irritation. 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: GHS07 GHS09

• Signal word Warning: Hazard-determining components of labelling: Silica Fumed

• Hazard statements H332 Harmful if inhaled. H315 Causes skin irritation. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

• 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. P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves / eye protection / face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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

P312 Call a POISON CENTER/doctor if you feel unwell. 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: 68439-49-6 NLP: 500-212-8 Ceteareth-10

Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4,

H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

20.0% CAS: 112945-52-5 EINECS: 249-317-8

Silica Fumed Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319

10.0% Additional information: For the wording of the listed hazard phrases refer to section 16

SECTION 4: First aid measures

4.1 Description of first aid measures: General information:

Immediately remove any clothing soiled by the product. Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation: Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. No adverse effects are anticipated from inhalation.

• 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: If symptoms persist consult doctor.

• 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

**Material Safety data sheet
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Trade name: Kemet Diamond Compound

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

No further relevant information available

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 Not required.

6.2 Environmental precautions:

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

Inform respective authorities in case of seepage into water course or sewage system.

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).

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: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

• Storage: Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Not required.

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

• 7.3 Specific end use(s) No further relevant information available.

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 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.

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

Trade name: Kemet Diamond Compound

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- General Information
- Appearance: Form: Fluid Colour: According to product specification
- Odour: Characteristic Odour threshold: Not determined. pH-value: Not determined.
- 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: Not determined. Relative density: Not determined. Vapour density: Not determined.
- Evaporation rate Not determined.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity: Dynamic: Not determined. Kinematic: Not determined.
- Solvent content: Organic solvents: 0.5 %
- VOC (EC) 0.50 % Solids content: 99.5 %

SECTION 10: Stability and reactivity

10.1 Reactivity No further relevant information available.

- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects:

- Acute toxicity: Harmful if inhaled.
- Specific symptoms in biological assay:
- Skin corrosion/irritation: Causes skin irritation.
- 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:
- 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

- 12.1 Toxicity: 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 No further relevant information available.
- Ecotoxicological effects: Remark: Toxic for fish. Additional ecological information:
- General notes: Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water
Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Danger to drinking water if even extremely small quantities leak into the ground.
Also poisonous for fish and plankton in water bodies.
Toxic for aquatic organisms
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

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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. Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport Information

14.1 UN-Number

- ADR, IMDG, IATA --
- 14.2 UN proper shipping name Not dangerous goods
- 14.3 Transport hazard class(es)
- ADR, IMDG, IATA
- Class --
- 14.4 Packing group
- ADR, IMDG, IATA --
- 14.5 Environmental hazards: Product contains environmentally hazardous substances: Cetcareth-10
- Marine pollutant: No
- 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: 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.
- Seveso category E2 Hazardous to the Aquatic Environment
- Qualifying quantity (tonnes) for the application of upper-tier requirements 500

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.

- Relevant phrases
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects