

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: Apiezon N Grease**

• Article number: A4-902

• 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

This product is not classified as hazardous and therefore there is no legal requirement to provide an SDS in Europe. This document has been compiled for information purposes, in accordance with Regulation (EU) No 453/2010.

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

The substance is not classified, according to the CLP regulation.

• 2.2 Label elements

• Labelling according to Regulation (EC) No 1272/2008 Void

• Hazard pictograms Void

• Signal word Void • Hazard statements Void • 2.3 Other hazards None.

• Results of PBT and vPvB assessment

• PBT: Not applicable. • vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

• 3.1 Chemical characterisation: Substances

• CAS No. Description 8009-03-8 N Grease

• Identification number(s) No further information available.

SECTION 4: First aid measures

4.1 Description of first aid measures

• General information: No special measures required.

• After inhalation: None envisaged due to the low vapour pressure of the substance.

• After skin contact: Wash with soap and water.

• After eye contact: Irrigate with copious amounts of water.

• After swallowing: Do not induce vomiting, obtain medical attention.

4.2 Most important symptoms and effects, both acute and delayed

No adverse effects expected.

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

No special treatment required

SECTION 5: Firefighting Measures

• 5.1 Extinguishing media

• Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

Carbon dioxide, dry powder, foam or water fog.

Do not use water jets.

• 5.2 Special hazards arising from the substance or mixture None.

• 5.3 Advice for firefighters No special precautions are required.

• Protective equipment: No special measures required

Trade name: Apiezon N Grease

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Spilt product constitutes a slip hazard. Avoid contact with eyes.

- 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water. No special precautions required.

- 6.3 Methods and material for containment and cleaning up: Can be wiped from surfaces and residues cleaned with water and detergent.

- 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

No special measures required.

No special precautions required.

- Information about fire - and explosion protection: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities

No special precautions required.

- 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: None.

- 7.3 Specific end use(s) No special precautions required.

SECTION 8: Exposure controls/personal protection

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

- 8.1 Control parameters No relevant control parameters.

- Ingredients with limit values that require monitoring at the workplace: Not required.

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

- 8.2 Exposure controls

The level of controls depends on the use. In most cases very small quantities of material are used.

Eye washes should be available for emergency use. Personal protective equipment:

- General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.

- Respiratory protection: Not required.

- 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. Wash hands after use. For prolonged or repeated skin contact gloves are recommended.

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

- Eye protection: Not required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties -General Information:

Appearance: Semi-solid yellow/brown grease.

- Form: Viscous

- Colour: Dark yellow

- Odour: Odourless

- Odour threshold: Not determined.

Trade name: Loctite 460

SECTION 9: Continued....

Information on basic physical and chemical properties continued...

pH-value: Not applicable.

• Change in condition - Melting point/freezing point: 42-52 °C

Initial boiling point and boiling range: >450 °C

• Flash point: >200 °C

• Flammability (solid, gas): Data not available.

• Ignition temperature: >250 °C

• Decomposition temperature: Not determined.

• Auto-ignition temperature: >250 °C

• Explosive properties: Product does not present an explosion hazard.

• Explosion limits: Lower: Not determined. Upper: Not determined.

• Vapour pressure at 20 °C: 8-10 hPa

• Density at 20 °C: 0.911 g/cm³

• Relative density at 20 °C 0.911 g/cm³

Evaporation rate Not applicable.

• Solubility in / Miscibility with water: Not determined.

• Partition coefficient: n-octanol/water: Not determined.

• Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. Other information Soluble in aromatic hydrocarbon solvents.

SECTION 10: Stability and reactivity

10.1 Reactivity Stable under normal conditions of use.

• 10.2 Chemical stability Stable under normal conditions of use.

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

• 10.3 Possibility of hazardous reactions Data not available.

• 10.4 Conditions to avoid Temperatures >120°C.

• 10.5 Incompatible materials: Strong oxidising agents.

• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Skin and eyes are the most likely routes for exposure. Accidental ingestion may occur. Inhalation is not expected to be a relevant route of exposure.

Low volatility makes inhalation unlikely.

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

• LD/LC50 values relevant for classification:

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rabbit)

• Skin corrosion/irritation Repeated and prolonged skin contact may cause dry skin or irritation.

• Serious eye damage/irritation May cause transient irritation.

• Respiratory or skin sensitisation Not expected to be a skin sensitiser.

• Other information (about experimental toxicology):

Aspiration hazard: Not considered an aspiration hazard.

Carcinogenicity/mutagenicity: Not considered a mutagenic hazard or carcinogen. Note N: The classification as a carcinogen need not apply if the full refining history is known and it can be shown that the substance from which it is produced is not a carcinogen.

• CMR effects (carcinogenity, 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.

Trade name: Apiezon N Grease

SECTION 12: Ecological Information

12.1 Toxicity

When used and/or disposed of as indicated no adverse environmental effects are foreseen.

Ecotoxicological effects based on knowledge of similar substances.

Expected to be practically non-toxic. Aquatic toxicity: No further relevant information available.

- 12.2 Persistence and degradability Inherently biodegradable.
- 12.3 Bioaccumulative potential Has the potential to bioaccumulate.
- 12.4 Mobility in soil Product has low mobility in soil.
- 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.
- 12.5 Results of PBT and vPvB assessment: The product does not meet criteria for toxicity which requires further assessment. It is not considered PBT or vPvB.
- PBT: Not applicable • vPvB: Not applicable.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

- Recommendation: Smaller quantities can be disposed of with household waste.
Product and packaging must be disposed of in accordance with local and national regulations. May be incinerated. Unused product may be returned for reclamation.
- Recommendation: Disposal must be made according to official regulations

SECTION 14: Transport Information

14.1 UN-Number Not relevant.

- ADR, ADN, IMDG, IATA Void
- 14.2 UN proper shipping name Not relevant.
- ADR, ADN, IMDG, IATA Void
- 14.3 Transport hazard class(es) Not relevant.
- ADR, ADN, IMDG, IATA
- Class Void: 14.4 Packing group Not relevant.
- ADR, IMDG, IATA Void
- 14.5 Environmental hazards: 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.
- Transport/Additional information: Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations. UN "Model Regulation": Void

SECTION 15: Ecological information

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

Product is not subject to Authorisation under REACH.

- Directive 2012/18/EU
- Named dangerous substances - ANNEX I Substance is not listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 28
- 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..