

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

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

1.1 Product identifier

- **Trade name: Apiezon AP201 Oil.**
- **Article number: 51-1625-0701**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against.** NA
- **Application of the substance / preparation:** Product use: Oil for diffusion-ejector (booster) pumps.
Uses advised against: None.

• **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

This product is not classified as hazardous and this document has been compiled for information purposes, in accordance with regulation REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 and OSHA hazard communication guidelines.

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567): Not classified.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567): No symbol or signal word.

2.3 Other hazards: No data available

SECTION 3: Composition/information on ingredients

3.1; Substance: Not Applicable. All constituents are listed on the TSCA inventory. Additives used in this product are atrade secret, but do not lead to classification of the substance as hazardous.

Constituent	CAS Number EC Number EU REACH No Index	Classification	Concentration (%w/w)
Distillates (petroleum)	64742-52-5 265-155-0 01-2119467170-45 649-465-00-7	None	>95%
Performance enhancing additives	Proprietary	None	<5%

SECTION 4: First aid measures

General advice: Have the product container, label or Safety Data Sheet with you when calling the emergency number, or a physician.

Inhalation: None envisaged due to the low vapour pressure of the substance.

Skin: Wash with soap and water. Obtain medical attention if irritation develops.

Eyes: Irrigate with copious amounts of water. Obtain medical attention if irritation develops.

Ingestion: Do not induce vomiting, obtain medical attention.

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SECTION 5: Firefighting Measures

5.1 Extinguishing media

Suitable extinguishing media: Carbon dioxide, dry powder, foam or water fog. Unsuitable extinguishing media: Do not use water jets.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting: None. 5.3 **Advice for fire fighters:**

Special protective equipment for firefighters: Wear full protective clothing and self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures. **Personal precautions:** Refer to protective measures listed in sections 7 and 8.

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

6.2 Environmental precautions: Environmental precautions: Do not contaminate any lakes, streams, ponds, groundwater, or soil. Avoid flushing into drains. In the event of a large spillage, contain the product as thoroughly as possible, and dispose of it in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spilt material with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in a container for disposal according to local / national regulations (see section 13). Clean contaminated surface thoroughly. Clean with detergents. Avoid solvents. Retain and dispose of contaminated water.

6.4 Reference to other sections. For disposal considerations see section 13. Refer to protective measures listed in sections 7 and 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Avoid eye and prolonged skin contact.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers: No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feed.

7.3 Specific end use(s)

Exposure to air should be minimised. Opened containers should be properly resealed. For proper and safe use of this product, please refer to the label

SECTION 8: Exposure controls/personal protection

8.1 Control parameters. Occupational Exposure Limits: Component CAS-No. 64742-52-5

Value type: Distillates (petroleum) oil mist

(Form of exposure): 8hr TWASTEL Control parameters: 5 mg/m³

Biological occupational exposure limits: N/A Derived No Effect Level (DNEL): N/A

Predicted No Effect Concentration (PNEC): N/A

8.2 Exposure controls Engineering measures: The extent of these protection measures depends on the actual risks in use. Personal protective equipment: Not required

Respiratory protection: Not required for normal use. Skin protection: Wear coveralls.

Hand protection: Wash hands after use. For prolonged or repeated skin contact gloves are recommended. Recommended gloves: Material: Nitrile rubber.

Break through time: > 480 min. Glove thickness: 0.5 mm. Remarks: Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Eye protection: If splashes are likely to occur wear safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Eye washes should be available for emergency use

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties. Appearance: Pale amber liquid.
 Odour: Characteristic oily. pH: Not applicable.
 Freezing point: Data not available.
 Initial boiling point and boiling range: >250°C.
 Flash point: 196°C (closed cup).
 Flammability (solid, gas): Data not available.
 Upper/lower flammability or explosive limits: Data not available.
 Vapour pressure: 4×10^{-6} Torr at 20°C. Vapour density: Not applicable.
 Relative density: 0.899 at 20°C.
 Water solubility: Insoluble. Solubility: Not applicable.
 Partition coefficient: n-octanol/water: Data not available.
 Auto-ignition temperature: >320°C. Decomposition temperature: Data not available.
 Kinematic viscosity: 22cSt at 40°C. Explosive properties: Data not available.
 Oxidising properties: Data not available
 9.2 Other information Surface tension: No data available. Particle size: No data available

SECTION 10: Stability and reactivity

10.1 Reactivity Stable: under normal conditions of use.
 10.2 Chemical stability: Stable under normal conditions of use.
 10.3 Possibility of hazardous reactions
 Data not available.
 10.4 Conditions to avoid
 Temperatures >180°C.
 10.5 Incompatible materials
 Strong oxidising agents.
 10.6 Hazardous decomposition products None.

SECTION 11: Toxicological information

11.1 Information on toxicological effects
 Likely routes of exposure: 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.
 Product:
 Acute oral toxicity: Low toxicity: LD50 (Rat, female): >2000mg/kg, OECD 401.
 Acute dermal toxicity: Expected to be of low toxicity: LD50 (Rat, female): >2000mg/kg, OECD 402.
 Acute inhalation toxicity: Low volatility makes inhalation unlikely.
 Skin corrosion/irritation: Repeated and prolonged skin contact may cause dry skin or irritation.
 Eye corrosion/irritation: May cause transient irritation.
 Respiratory or skin sensitization: Not expected to be a skin sensitizer.
 Aspiration hazard: Not considered an aspiration hazard.
 Carcinogenicity/mutagenicity: Not considered a mutagenic hazard or carcinogen.
 Contains <3% DMSO extractible compounds according to IP346.
 This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA

Trade name: APIEZON AP201 OIL

SECTION 12: Ecological Information

When used and/or disposed of as indicated, no adverse environmental effects are foreseen. Ecotoxicological effects based on knowledge of similar substances.

12.1 Toxicity - Product: Expected to be practically non-toxic.

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.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Endocrine disrupting properties

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission

Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No other adverse effects envisaged.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Product: Do not contaminate any lakes, streams, ponds, groundwater or soil. Avoid flushing into drains.

Product and packaging must be disposed of in accordance with local and national regulations.

May be incinerated. Unused product may be returned for reclamation.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Waste code: Uncleaned packaging code 15-01-02 - Empty packaging contaminated with residues of non-hazardous substances

SECTION 14: Transport Information

Not classified as hazardous under air (ICAO/IATA), sea (IMDG), road (ADR) or rail (RID) regulations. 14.1 UN number. Not relevant. 14.2 UN proper shipping name

Not relevant. 14.3 Transport hazard class: Not relevant.

14.4 Packing group Not relevant. 14.5 Environmental hazards: Not relevant.

14.6 Special precautions for user: Not relevant.

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.

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation

(Article 59): Not applicable. Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable. Regulation (EU) 2019/1021 on persistent organic pollutants (recast): Not applicable.

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable.

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC)

Regulation: Not applicable. All constituent substances in this product are listed in the TSCA inventory.

15.2 Chemical safety assessment A chemical safety assessment has been performed for this substance.

SECTION 16: Other information

Compiled according to regulation 1907/EC/2006, as amended by UK REACH Regulations SI 2019/758 and OSHA hazard communication guidelines.

16.1 Changes from last issue

Complete review due to update in regulations.