Material Safety Data Sheet

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY

Product Name: Aplezon Grease AP101
Item No(s): H023-01-044
Synonyms: None.
Intended use: Lubricant in medium vacuum systems.
Supplier: Kurt J. Lesker Company

Emergency Telephone Numbers:
1515 Worthington Avenue
Clairton, PA 15025-2700
Sales: 800-245-1656  www.lesker.com
(412) 233-4200  Fax: (412) 233-4275

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients name % Weight Classification Risk phrase CAS No.
Refined mineral oil, thickening agent, Polytetrafluoroethylene (PFPE) 100 Non hazardous Not applicable 65154-53-2

SECTION 3 HAZARDS IDENTIFICATION

Nature of the hazard: None.
Precaution to be taken: None.

SECTION 4 FIRST AID MEASURES

Skin contact: Wash with soap and water.
Eyes contact: Flush with water for up to 10 minutes. If irritation still persists, refer for medical attention.
Inhalation: Remove to fresh air. If rapid recovery does not occur, obtain medical attention.
Ingestion: Do not induce vomiting. Obtain medical attention IMMEDIATELY.
Other information: None.
SECTION 5  FIRE FIGHTING MEASURES
Extinguishing media  For small fires use CO₂, dry chemical powder, sand or earth.
Fire fighting procedure Wear a self-contained breathing apparatus (SCBA) in confined areas and for any significant fire.
Unusual fire fighting hazards None.
Combustion products Partially decomposed hydrocarbons.
Fire hazards in presence of other materials None known.

SECTION 6  ACCIDENTAL RELEASE MEASURES
Personal precautions Split product constitutes a slip hazard.
Environmental precautions None.
Decontamination procedures Place in containers. Refer to Section 13 regarding disposal.

SECTION 7  HANDLING AND STORAGE
Store away from naked flames.
Keep containers tightly closed when not in use.
Prevent spillage and minimise operations which will contaminate work area and equipment.

SECTION 8  EXPOSURE CONTROLS/PERSOINAL PROTECTION
Engineering measures None required in normal use.
Exposure limits: 5 mg/m³ 8-hour TWA.
Mineral oil (mlst) 10 mg/m³ STEL.
Personal protective equipment
Respiratory protection Not required under normal conditions.
Eye protection Use safety glasses.
Hand protection Protective gloves are optional.
Other requirements Overalls laundered regularly.
Hygiene measures Store away from heat.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES
Appearance and odour Yellow grease
Boiling point (°C) Not applicable
Melting point (°C) > 200
Freezing point (°C) Not applicable
Flash point (°C) > 250
Flash point method Not known
Auto ignition (°C) Not determined
pH (as supplied) Neutral
Vapour pressure (mbar) 8 x 10⁻⁶ at 20 °C
Solubility in water Insoluble
Volatile content by volume None
Specific gravity (H₂O=1) 0.981 at 20 °C
SECTION 10 STABILITY AND REACTIVITY

Stability Will not polymerise.
Conditions to avoid Temperatures > 200 °C.
Materials to avoid Strong oxidising agents.
Hazardous decomposition products May liberate toxic gases at > 500 °C.

SECTION 11 TOXICOLOGICAL INFORMATION

Possible health effects
- Skin Repeated and prolonged skin contact may cause skin disorders.
- Eyes May cause transient irritation.
- Inhalation Low volatility makes inhalation unlikely.
- Ingestion May cause nausea, vomiting and diarrhoea.

Other health hazard information

Animal data
- LD50 value Oral > 2 g/kg (rat).
- LC50 value Dermal > 2 g/kg (rabbit).

Carcinogenic Not known, but believed low toxicity.
No.

SECTION 12 ECOLOGICAL INFORMATION

Environmental When used and/or disposed of as indicated no adverse environmental effects are foreseen.
Mobility Non-volatile. Insoluble in water.
Degradability Petroleum base slowly biodegradable in aerobic conditions. PTFE biologically inert.

SECTION 13 DISPOSAL CONSIDERATIONS

Product and packaging must be disposed of in accordance with local and national regulations. Must not be incinerated due to the liberation of toxic gases at >500 °C. Unused product may be returned for reclamation.

SECTION 14 TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.
SECTION 15  REGULATORY INFORMATION

This product has been classified in accordance with the Dangerous Substances Directive (67/548/EEC, as amended) and the Preparations Directive (89/378/EEC, as amended), implemented in the UK as the Chemical (Hazard Information and Packaging) Regulations 1993 (CHIP).

Dangerous for supply  No.
Risk phrases  Not applicable.
Safety phrases  Not applicable.
Symbols  Not applicable.

SECTION 16  OTHER INFORMATION

The format of this data sheet complies with the requirements of ANSI Z400.1 and the EC Safety Data Sheets Directive (91/155/EEC).

Glossary: CAS - Chemical Abstract Services; LC - Lethal Concentration; LD - Lethal Dose; TLV - Threshold Limit Value.

Sources of data: