

SAFETY DATA SHEET

DENTAL LUBRICANT / HAND PIECE LUBRICANT

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name DENTAL LUBRICANT / HAND PIECE LUBRICANT
Internal Id 10010/100111

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Lubricant.

1.3. Details of the supplier of the safety data sheet

Supplier ASTEK INNOVATIONS LIMITED
ASTEK HOUSE
ATLANTIC STREET
ALTRINCHAM
CHESHIRE
WA14 5DH
TEL +44 (0)161 9423900
FAX +44 (0)161 9423901

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Aerosol 1 - H222
Human health	Not classified.
Environment	Aquatic Chronic 3 - H412

Classification (1999/45/EEC) F+;R12. R52/53.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008



Signal Word Danger

Hazard Statements

H222	Extremely flammable aerosol.
H412	Harmful to aquatic life with long lasting effects.

Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P260	Do not breathe vapour/spray.
P271	Use only outdoors or in a well-ventilated area.

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P410+412

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501

Dispose of contents/container in accordance with local regulations.

Supplementary Precautionary Statements

P273

Avoid release to the environment.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

REFINED MINERAL OIL		60-100%
CAS-No.: 8042-47-5	EC No.: 232-455-8	Registration Number: 01-2119487078-27-xxxx
Classification (EC 1272/2008) Asp. Tox. 1 - H304	Classification (67/548/EEC) Xn;R65.	
HYDROCARBON PROPELLANT		10-30%
CAS-No.: 68476-85-7	EC No.: 270-704-2	
Classification (EC 1272/2008) Flam. Liq. 1 - H224	Classification (67/548/EEC) F+;R12.	
PENTANE		10-30%
CAS-No.: 109-66-0	EC No.: 203-692-4	Registration Number: 01-2119459286-30-xxxx
Classification (EC 1272/2008) Flam. Liq. 2 - H225 EUH066 STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) F+;R12 Xn;R65 R66 R67 N;R51/53	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition Comments

Aerosol propelled by liquefied petroleum gas.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

Provide fresh air, warmth and rest, preferably in a comfortable upright sitting position. Get medical attention if any discomfort continues.

Ingestion

Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin contact

Wash skin with soap and water. Get medical attention if any discomfort continues.

Eye contact

Rinse the eye with water immediately. Get medical attention if any discomfort continues.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Vapours may cause drowsiness and dizziness.

Ingestion

Due to the physical nature of this material it is unlikely that swallowing will occur.

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Skin contact

Prolonged contact may cause redness, irritation and dry skin.

Eye contact

Irritation of eyes and mucous membranes.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Extinguish with foam, carbon dioxide or dry powder.

5.2. Special hazards arising from the substance or mixture

Unusual Fire & Explosion Hazards

Possible risk of can rupture when exposed to fire\high temps. Contents of aerosol will add to fuelling of fire. Solvent vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Use water to keep fire exposed containers cool and disperse vapours.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Do not smoke, use open fire or other sources of ignition. Provide adequate ventilation.

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Absorb with inert, damp, non-combustible material, then flush area with water.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. CAUTION. Pressurised container. Do not expose to temperatures exceeding 50°C Do not puncture or incinerate even when empty. Do not spray onto naked flame or incandescent material.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Aerosol cans: Must not be exposed to direct sunlight or temperatures above 50°C. Store at moderate temperatures in dry, well ventilated area.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

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Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
HYDROCARBON PROPELLANT	WEL	600 ppm	1430 mg/m3	750 ppm	1780 mg/m3	
PENTANE	WEL	600 ppm	1800 mg/m3			
REFINED MINERAL OIL			5 mg/m3 (Oil mist)			

WEL = Workplace Exposure Limit.

PENTANE (CAS: 109-66-0)

DNEL

Industry	Dermal	Long Term	Systemic Effects	432 mg/kg/day
Industry	Inhalation.	Long Term	Systemic Effects	3000 mg/m3
Consumer	Oral	Long Term	Systemic Effects	214 mg/kg/day
Consumer	Dermal	Long Term	Systemic Effects	214 mg/kg/day
Consumer	Inhalation.	Long Term	Systemic Effects	643 mg/m3

PNEC

Water	0.23	mg/l
Sediment	1.2	mg/kg
Soil	0.55	mg/kg
STP	3.60	mg/l

8.2. Exposure controls

Protective equipment



Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Use protective gloves made of: Rubber, neoprene or PVC.

Eye protection

Wear approved chemical safety goggles where eye exposure is reasonably probable.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Aerosol.
Colour	Colourless.
Odour	Mild. Hydrocarbon.
Solubility	Insoluble in water
Flash point (°C)	APPROX -40 CC (Closed cup).

9.2. Other information

Not determined.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

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Materials To Avoid

No incompatible groups noted.

10.6. Hazardous decomposition products

Fire or high temperatures create: Carbon dioxide (CO₂). Carbon monoxide (CO).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Inhalation

Vapours may cause drowsiness and dizziness.

Ingestion

Gastrointestinal symptoms, including upset stomach.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Eye contact

Irritation of eyes and mucous membranes.

Toxicological information on ingredients.

PENTANE (CAS: 109-66-0)

Acute toxicity:

Acute Toxicity (Oral LD₅₀)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD₅₀)

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC₅₀)

364 mg/l (vapours) Rat 4 hours

Respiratory or skin sensitisation:

Respiratory sensitisation

Not known.

Skin sensitisation

Not known.

Carcinogenicity:

Carcinogenicity

No information available.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

No information available.

Reproductive Toxicity - Development

No information available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

No information available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

No information available.

HYDROCARBON PROPELLANT (CAS: 68476-85-7)

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REFINED MINERAL OIL (CAS: 8042-47-5)

Toxicological information

No information available.

Acute toxicity:

Acute Toxicity (Oral LD50)

No information available.

> 5000 mg/kg Rat

Acute Toxicity (Dermal LD50)

No information available.

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

No information available.

> 5200 mg/l (dust/mist) Rat 4 hours

Skin Corrosion/Irritation:

Not irritating.

Respiratory or skin sensitisation:

Respiratory sensitisation

No information available.

Skin sensitisation

No information available.

Carcinogenicity:

Carcinogenicity

No information available.

Reproductive Toxicity:

Reproductive Toxicity - Fertility

No information available.

Reproductive Toxicity - Development

No information available.

Specific target organ toxicity - single exposure:

STOT - Single exposure

No information available.

Specific target organ toxicity - repeated exposure:

STOT - Repeated exposure

No information available.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

Dangerous for the environment if discharged into watercourses.

12.1. Toxicity

Acute Toxicity - Fish

Not determined.

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Ecological information on ingredients.

PENTANE (CAS: 109-66-0)

Acute Toxicity - Fish

LC50 4.26 mg/l Onchorhynchus mykiss (Rainbow trout)

Acute Toxicity - Aquatic Plants

EC50 10.7 mg/l Freshwater algae

REFINED MINERAL OIL (CAS: 8042-47-5)

Acute Toxicity - Fish

Not available.

Acute Toxicity - Aquatic Plants

Not available.

Acute Toxicity - Microorganisms

Not available.

12.2. Persistence and degradability

Degradability

The degradability of the product has not been stated.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment

Not Classified as PBT/vPvB by current EU criteria.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General information

Do not puncture or incinerate even when empty.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1950

14.2. UN proper shipping name

Proper Shipping Name AEROSOLS

14.3. Transport hazard class(es)

ADR/RID/ADN Class Class 2.1: Flammable gases.

IMDG Class 2.1

ICAO Class/Division 2.1

Transport Labels

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14.4. Packing group

ADR/RID/ADN Packing group

5F

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

Tunnel Restriction Code

(D)

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

Statutory Instruments

Control of Substances Hazardous to Health.

Guidance Notes

Workplace Exposure Limits EH40.

EU Legislation

Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Date 25/03/13

Revision 3.1

Supersedes date 19/04/11

Date 16/05/07

Risk Phrases In Full

R12 Extremely flammable.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

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Hazard Statements In Full

EUH066	Repeated exposure may cause skin dryness or cracking.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.