

#### 1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Endo Mate Pana Spray Lubricant

Product Code: 0222

Application: Lubricant Spray

Company: Davis Schottlander & Davis Ltd

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#### 2. HAZARD IDENTIFICATION

Classification of the substance or mixture: Classification (REGULATION (EC) No 1272/2008)

Aerosols, Category 1 H222: Extremely flammable aerosol.

H229: Pressurised container: May burst if heated.

**Label elements:** 

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word: Danger

Hazard statements: H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

Precautionary statements: **Prevention:** 

P210 Keep away from heat, hot surfaces, sparks, open

flames and other ignition sources. No smoking. P211 Do not spray on an open flame or other ignition

source.

P251 Do not pierce or burn, even after use.

Storage:

P410 + P412 Protect from sunlight. Do not expose to

temperatures exceeding 50 °C/ 122 °F.

#### 3. **COMPOSITION / INFORMATION ON INGREDIENTS**

Mixtures:

Chemical nature: Active substance with propellant

**Hazardous components:** 

Chemical Name	CAS No EC No. Index No. Registration number	Classification REGULATION (EC) No. 1272/2008)	Concentration [%]
Ethanol	64-17-5	Flam. Liq. 2; H225	>=20 - <30
	200-578-6	Eye Irrit. 2; H319	
	603-002-00-5		



#### Substances with a workplace exposure limit:

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Isobutane	75-28-5	Flam. Gas 1; H220	>=50 - <70		
	200-857-2	Press. Gas Compr. Gas;			
	601-004-00-0	H280			
Propane	74-98-6	Flam. Gas 1; H220	>=1 - <10		
	200-827-9	Press. Gas Compr. Gas;			
	601-003-00-5	H280			
Butane	106-97-8	Flam. Gas 1; H220 Press.	>=1 - <10		
	203-448-7	Gas Compr. Gas; H280			
	601-004-00-0				

#### 4. FIRST AID MEASURES

Description of first aid measures:

If inhaled: Remove person to fresh air. If signs/symptoms continue, get

medical attention. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If breathing is irregular

or stopped, administer artificial respiration.

**In case of skin contact:** Take off all contaminated clothing immediately. Wash off

immediately with soap and plenty of water. Get medical attention immediately if irritation develops and persists. Wash clothing before reuse. Thoroughly clean shoes before

reuse.

In case of eye contact: Rinse immediately with plenty of water, also under the

eyelids, for at least 10 minutes. If eye irritation persists,

consult a specialist.

**If swallowed:** Move the victim to fresh air. Keep respiratory tract clear.

Do NOT induce vomiting. Rinse mouth with water.

Most important symptoms and effects, both acute and delayed:

Symptoms: No information available.

Risks: None known.

Indication of any immediate medical attention and special treatment needed:

Treatment: No information available.

#### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** 

Suitable extinguishing media: ABC powder

Unsuitable extinguishing media: High volume water jet

Special hazards arising from the substance or mixture:

Specific hazards during fire fighting: Fire may cause evolution of:

Carbon oxides Fire Hazard

Do not let product enter drains. Contains gas under pressure; may explode if heated. Beware of vapours accumulating to form explosive concentrations.

Vapours can accumulate in low areas.



#### Advice for firefighters:

Special protective equipment

for firefighters: In the event of fire, wear self-contained breathing

apparatus. Use personal protective equipment.

In the case of respirable dust and/or fumes, use self-

contained breathing apparatus. Exposure to decomposition

products may be a hazard to health.

Further information: Standard procedure for chemical fires. Collect

contaminated fire extinguishing water separately.

This must not be discharged into drains. Cool containers /

tanks with water spray.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures:

Personal precautions: Evacuate personnel to safe areas. Ensure adequate

ventilation. Remove all sources of ignition. Do not breathe vapours or spray mist. Refer to protective measures listed in

sections 7 and 8.

Environmental precautions: Try to prevent the material from entering drains or water

courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

#### Methods and materials for containment and cleaning up

Methods for cleaning up: Contain spillage, and then collect with non-combustible

absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Keep in suitable, closed containers for disposal. Non-sparking tools should be

used.

#### Reference to other sections:

For personal protection see section 8.

#### 7. HANDLING AND STORAGE

#### **Precautions for safe handling:**

Advice on safe handling: Do not use in areas without adequate ventilation. Do not

breathe vapours or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin and eyes. For personal protection see section 8. Keep away from fire, sparks and heated surfaces. Smoking, eating and drinking should be prohibited in the application area. Wash hands and face before breaks and immediately after handling the product. Do not get in eyes or mouth or on skin. Do not get on skin or clothing. Do not ingest. Do not use sparking tools. These safety instructions



also apply to empty packaging which may still contain product residues.

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50  $^{\circ}$ C. Do not pierce or

burn, even after use.

#### Conditions for safe storage, including any incompatibilities:

Requirements for storage

areas and containers: BEWARE: Aerosol is pressurized. Keep away from direct sun

exposure and temperatures over 50 °C. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects. Store in accordance with the

particular national regulations.

Specific end use(s): Consult the technical guidelines for the use of this

substance/mixture.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**Control parameters** 

Components	CAS No.	Value type	Control parameters	Update	Basis
Isobutane	75-28-5	AGW	1.000 ppm 2.400 mg/m <sup>3</sup>	2006-01-01	DE TRGS 900

Further information: DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).

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Ethanol	64-17-5	AGW	500 ppm	2006-01-01	DE TRGS 900	
			960 mg/m <sup>3</sup>			

Further information: DFG: Senate commission for the review of compounds wt the work place dangerous for the health (MAK-commission). When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child.

Propane	74-98-6	AGW	1.000 ppm	2006-01-01	DE TRGS 900
			1.800 mg/m <sup>3</sup>		

Further information: DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).

Butane	106-97-8	AGW	1.000 ppm	2006-01-01	DE TRGS 900
			2.400 mg/m <sup>3</sup>		

Further information: DFG: Senate commission for the review of compounds at the work place dangerous for the health (MAK-commision).

DNEL Ethanol: End Use: Industrial use

Exposure routes: Inhalation

Potential health effects: Acute local effects

Value: 1900 mg/m3

End Use: Industrial use Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 950 mg/m3

End Use: Industrial use Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 343 mg/kg



PNEC Ethanol: Fresh water

Value: 0,96 mg/l

Marine water Value: 0,79 mg/l

Intermittent use/release

Value: 2,75 mg/l

Microbiological Activity in Sewage Treatment Systems

Value: 580 mg/l

Fresh water sediment Value: 3,6 mg/kg

Soil

Value: 0,63 mg/kg

#### **Exposure controls**

Engineering measures:

Use only in an area equipped with explosion proof exhaust ventilation. Handle only in a place equipped with local exhaust (or other appropriate exhaust).

#### Personal protective equipment

Respiratory protection: Use respiratory protection unless adequate local exhaust

ventilation is provided or exposure assessment

demonstrates that exposures are within recommended

exposure guidelines. Short term only Filter type A-P

Hand protection: For prolonged or repeated contact use protective gloves.

The selected protective gloves have to satisfy the

specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The break through time depends amongst other things on the material, the thickness and the type of glove and therefore has to be measured for each

case. In case of contact through splashing:

Nitrile rubber

Protective index Class 1

Eye protection: Safety glasses with side-shields conforming to EN166

Hygiene measures: Wash face, hands and any exposed skin thoroughly after

handling.



Protective measures: The type of protective equipment must be selected

according to the concentration and amount of the dangerous substance at the specific workplace.

Choose body protection in relation to its type, to the

concentration and amount of dangerous substances, and to

the specific work-place.

## **Environmental exposure controls**

General advice: Try to prevent the material from entering drains or water

courses. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages

cannot be contained.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Values refer to the propellant

## Information on basic physical and chemical properties:

Appearance: aerosol
Colour: colourless
Odour: characteristic
Odour Threshold: No data available
pH: No data available
Melting point/range: No data available
Boiling point/boiling range: <-10 °C, 1.013 hPa

Flash point: -80 °C, Test Method: open cup

Evaporation rate: No data available

Flammability (solid, gas): Extremely flammable aerosol.

Lower explosion limit: 1,5 %(V)
Upper explosion limit: 11,2 %(V)
Vapour pressure: 2.700 hPa, 20 °C
Relative vapour density: No data available
Density: 0,60 g/cm3, 20 °C

Water solubility: insoluble

Solubility in other solvents: No data available

Partition coefficient

n-octanol/water: No data available Auto-ignition temperature: No data available

Ignition temperature: > 350 °C

Viscosity, dynamic: No data available Viscosity, kinematic: No data available Oxidizing properties: No data available

Other information:

Sublimation point: No data available Bulk density: No data available

## 10. STABILITY AND REACTIVITY

#### Reactivity:

No hazards to be specially mentioned.



#### **Chemical stability:**

No decomposition if stored and applied as directed.

#### Possibility of hazardous reactions:

Hazardous reactions: No dangerous reaction known under conditions of normal

use.

Conditions to avoid: Heat, flames and sparks.

**Incompatible materials:** 

Materials to avoid: Oxidizing agents

**Hazardous decomposition products:** 

No decomposition if stored and applied as directed.

#### 11. TOXICOLOGY INFORMATION

#### Information on toxicological effects:

**Product** 

Acute oral toxicity: This information is not available.

Acute inhalation toxicity: Respiratory disorder, Inhalation may provoke the

following symptoms:

Skin corrosion/irritation: This information is not available.

Serious eye damage/eye irritation: Irritating to eyes.

Respiratory or skin sensitisation: This information is not available.

Germ cell mutagenicity

Genotoxicity in vitro:

Genotoxicity in vivo:

Carcinogenicity:

Reproductive toxicity:

Teratogenicity:

No data available

No data available

No data available

No data available

Repeated dose toxicity: This information is not available. Aspiration toxicity: This information is not available.

Further information: Information given is based on data on the

components and the toxicology of similar products.

**Components:** 

**Ethanol:** 

Acute oral toxicity: LD50: 10.470 mg/kg, rat, OECD Test Guideline 401 Acute inhalation toxicity: LC50: 124,7 mg/l, 4 h, rat, vapour, OECD Test

Guideline 403

Skin corrosion/irritation: rabbit, Result: No skin irritation, Classification: No

skin irritation, OECD Test Guideline 404

Serious eye damage/eye irritation: rabbit, Result: Irritating to eyes., Classification:

Irritating to eyes., OECD Test Guideline 405

Respiratory or skin sensitisation: mouse, Result: Does not cause skin sensitisation., Classification: Does not cause skin sensitisation.,

**OECD Test Guideline 429** 

Germ cell mutagenicity

Genotoxicity in vitro: Ames test, with and without metabolic activation,

Result: negative, OECD Test Guideline 471

Genotoxicity in vivo: In vivo micronucleus test, mouse, Result: negative Assessment: Tests on bacterial or mammalian cell cultures did

not show mutagenic effects.



Repeated dose toxicity: rat (female), Oral, 90 d, NOAEL: 1.730 mg/kg, OECD

Test Guideline 408.

STOT - repeated exposure: Assessment: The substance or mixture is not

classified as specific target organ toxicant, repeated

exposure.

Isobutane:

Acute inhalation toxicity:

LC50: 658 mg/l, 4 h, rat, gas

**Butane:** 

Acute inhalation toxicity: LC50: 658 mg/l, 4 h, rat, gas

#### 12. ECOLOGICAL INFORMATION

**Toxicity** 

**Product:** 

Toxicity to fish: No data available

Toxicity to daphnia and other

aquatic invertebrates: No data available Toxicity to algae: No data available Toxicity to bacteria: No data available

**Components:** 

**Ethanol:** 

Toxicity to fish: LC50: 3.220 mg/l, 96 h, Pimephales promelas (fathead

minnow)

Toxicity to daphnia and other

aquatic invertebrates: Toxicity to algae:

EC50: > 10.000 mg/l, 48 h, Daphnia magna (Water flea) EC50: 275 mg/l, 72 h, Chlorella vulgaris (Fresh water algae),

**OECD Test Guideline 201** 

Toxicity to daphnia and other

aquatic invertebrates

(Chronic toxicity): NOEC: 6.300 mg/l, 48 d, Daphnia magna (Water flea)

Persistence and degradability

**Product:** 

Biodegradability: No data available

Physico-chemical removability: No data available

Components:

Ethanol:

Biodegradability: aerobic, Result: Readily biodegradable., OECD Test Guideline

301B

**Bioaccumulative potential** 

**Product:** 

Bioaccumulation: This mixture contains no substance considered to be

persistent, bioaccumulating nor toxic (PBT). This mixture contains no substance considered to be very persistent nor

very bioaccumulating (vPvB).



**Components:** 

**Ethanol:** 

Bioaccumulation: Bioconcentration factor (BCF): 3,2. Due to the distribution

coefficient n-octanol/water, accumulation in organisms is

not expected.

Mobility in soil

**Product:** 

Mobility: No data available

Distribution among

environmental compartments: No data available

Results of PBT and vPvB assessment

**Product:** 

Assessment: This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

**Components:** 

Ethanol:

Assessment: This substance is not considered to be persistent,

bioaccumulating nor toxic (PBT)., This substance is not considered to be very persistent nor very bioaccumulating

(vPvB).

Other adverse effects

**Product:** 

Additional ecological

information: No information on ecology is available.

## 13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Product: In accordance with local and national regulations.

Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging: Offer empty spray cans to an established disposal company.

Pressurized container: Do not pierce or burn, even after use.

#### 14. TRANSPORT INFORMATION

**UN** number

ADR: 1950 IMDG: 1950 IATA: 1950

Proper shipping name

ADR: AEROSOLS IMDG: AEROSOLS

IATA: AEROSOLS, FLAMMABLE



#### **Transport hazard class**

ADR: 2 IMDG: 2.1 IATA: 2.1

#### **Packing group**

**ADR** 

Classification Code: 5F Labels: 2.1 Tunnel restriction code: (D)

**IMDG** 

Labels: 2.1 EmS Number: F-D, S-U

IATA

Packing instruction

(cargo aircraft): 203 Labels: 2.1

#### **Environmental hazards**

ADR

Environmentally hazardous: no

**IMDG** 

Marine pollutant: no

IATA

Environmentally hazardous: no

## Special precautions for user

No data available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not available

#### 15. REGULATORY INFORMATION

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

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

(Article 59): This product does not contain substances of very

high concern (Regulation (EC) No 1907/2006

(REACH), Article 57).

Major Accident Hazard Legislation: 96/82/EC Update.

Extremely flammable

8

Quantity 1: 10 t Quantity 2: 50 t

Chemical Safety Assessment: This information is not available.



## 16. FURTHER INFORMATION

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.