SAFETY DATA SHEET(SDS)

65139 Rev I

Issued on 2018-08-23
Revised on 2020-11-15

1. Product and Company Information

Product Description: **Electric Handpiece Lubricant**
Order code: 265138
Manufacturer: DENTALEZ Inc.,
StarDental® Division
1816 Colonial Village Lane
Lancaster, PA 17601 USA

Product Information: 1-866-DTE-INFO (1-866-383-4636)
Emergency Response: FOR CHEMICAL EMERGENCY
Spill, Leak, Fire Exposure or Accident
Call INFOTRAC-24 Hour Number: 1-800-535-5053
Outside of the United States Call 24-Hour Number: 001-352-232-3500

2. HAZARDS IDENTIFICATION

Classification of the chemical in accordance with paragraph (d) of § 1910.1200

Aerosols Category 1
Flammable liquids Category 2
Serious eye damage/eye irritation Category 2B
Germ cell mutagenicity Category 1B
Carcinogenicity Category 1A
Reproductive toxicity Category 1A
Specific target organ toxicity (single exposure) Category 2 (heart)
Specific target organ toxicity (single exposure) Category 3 (narcotic effect respiratory tract irritation)
Specific target organ toxicity (repeated exposure) Category 1 (liver)
Specific target organ toxicity (repeated exposure) Category 2 (central nervous system)

GHS Label Elements
Symbols

Signal Word: Danger

Hazard Statements:
H222 Extremely flammable aerosol
H225 Highly flammable liquid and vapour
H320 Causes eye irritation
H340 May cause genetic defects
H350 May cause cancer
H360 May damage fertility or the unborn child
H371 May cause damage to organs(heart)
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness
H372 Causes damage to organs(liver) through prolonged or repeated exposure
H373 May cause damage to organs(central nervous system) through prolonged or repeated exposure

H229 Pressurized container: may burst if heated

Precautionary Statements

Prevention	Obtain special instructions before use(P201) Do not handle until all safety precautions have been read and understood(P202) Keep away from heat, sparks, open flames and hot surfaces. No smoking.(P210) Do not spray on an open flame or other ignition source(P211) Keep container tightly closed.(P233) Ground/bond container and receiving equipment(P240) Use explosion-proof electrical/ ventilating/ lighting/ equipment(P241) Use only non-sparking tools(P242) Take precautionary measures against static discharge(P243) Pressurized container: Do not pierce or burn, even after use(P251) Wash thoroughly after handling.(P264) Do not eat, drink or smoke when using this product(P270) Use only outdoors or in a well-ventilated area(P271) Wear protective gloves, eye protection and face protection.(P280) Use personal protective equipment as required.(P281)
Response	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower(P303+P361+P353) IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.(P304+P340) IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing(P305+P351+P338) IF exposed or concerned: Get medical advice/attention(P308+P313) IF exposed or if you feel unwell: Call a doctor.(P309+P311) Call a POISON CENTER or doctor. If you feel unwell.(P312) Get medical advice/attention if you feel unwell(P314) If eye irritation persists: Get medical advice/attention(P337+P313) In case of fire: Use appropriate extinguishing media.(P370+P378)
Storage	Store in a well-ventilated place. Keep container tightly closed.(P403+P233) Store in a well-ventilated place. Keep cool(P403+P235) Store locked up(P405) Protect from sunlight. Do not expose to temperatures exceeding 50 ° C/122 ° F(P410+P412)
Disposal	Dispose of contents/ container to an approved landfill.(P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	Contents	CAS number
Synthetic ester lubricant	5.0 – 10.0%	N/A
Ethanol	25.0 – 35.0%	64-17-5
Propane	15.0 – 25.0%	74-98-6
n-Butane	25.0 – 35.0%	106-97-8
i-Butane	5.0 – 15.0%	75-28-5

4. FIRST-AID MEASURES

In case of inhalation	Call a POISON CENTER or doctor / physician if you feel unwell. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician. IF exposed or concerned: Get medical advice and attention.
In case of skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice and attention. IF exposed or concerned: Get medical advice and attention.
In case of eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Get medical advice and attention.
In case of ingestion	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF exposed or concerned: Get medical advice and attention. Being a volatile liquid, forcing to vomit increases risks such as aspirating into the lungs. Arrange medical treatment immediately. Also, have mouth rinsed thoroughly with water. Never give anything by mouth to an unconscious person.

5. FIRE-FIGHTING MEASURES

Suitable exitinguishing media	Dry chemical, alcohol-resistant foam, CO2, sand, water spray.
Unsuitable extinguishing media	Cylindric water.
Specific hazards arising from the chemical	Risk of producing harmful gases such as carbon monoxide and sulfur oxides. Avoid inhalation of smoke or gases
Special protective equipment and precautions for fire-fighters	Use goggles in combination with dust mask, and another protections as appropriate to situation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use goggles in combination with dust mask, and another protections as appropriate to situation.

	Large spills :Evacuate area. Ensure adequate ventilation.
Environmental precautions	Do not discharge into the drains, surface waters or ground water directly.
Methods and materials for containment and cleaning up	If not harmful, evaporate and disperse while being careful of fire and ventilation. You may also spray water to accelarate the evaporation.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures	Ground/bond container and receiving equipment. Use only non-sparking tools. Use explosion-proof electrical/ventilating/lighting. Take precautionary measures against static discharge. Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
Safe handling advice	Pressurized container: Do not pierce or burn, even after use. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Keep cool. Do not breathe dust/fume/gas/mist/vapours/spray.

Conditions for safe storage, including any incompatibilities

Suitable storage conditions	Protect from sunlight and store in well-ventilated place. Protect from sunlight. Store locked up. Store container tightly closed in well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

	ACGIH (TLV)	OSHA (PEL)	Exposure Limits
Ethanol	TWA -,STEL 1000 ppm	1000 ppm TWA; 1900 mg/m3 TWA	1000 ppm STEL
Propane	TWA (See Appendix F: Minimal Oxygen Content),STEL (See Appendix F: Minimal Oxygen Content)	1000 ppm TWA; 1800 mg/m3 TWA	See Appendix F: Minimal Oxygen Content, explosion hazard
n-Butane	TWA -,STEL (1000 ppm)	Not established	1000 ppm STEL (explosion hazard, listed under Butane, isomers)
i-Butane	TWA -,STEL (1000 ppm)	Not established	1000 ppm STEL (explosion hazard, listed under Butane, isomers)

Appropriate engineering controls	Use local exhaust ventilation in case of production of fume or mist. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use explosion-proof electrical equipment and prevent from static electrocity.
Individual protection measures	
Respiratory protection	If necessary, wear respiratory protection.
Hand protection	Wear protective gloves.
Eye protection	Wear eye protection/face protection.
Skin and body protection	Wear protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical State	Liquid:Fluid Spray:Gas (under atmospheric pressure)/ Fluid (in a pressure container)
Color	clear
Odor	Liquid:alcohol Spray:odorless
Odor threshold	No data available
pH	No data available
Melting point	Liquid:-114.5℃(as ethanol) Spray:-187.7～-138.4℃
Boiling point	Liquid:78.32℃(101.325KPa)(as ethanol) Spray:-42.1～-0.5℃
Flash point	Liquid:13℃(airtight-type)(as ethanol) Spray:-104.4～-73.8℃
Evaporation rate	Liquid:No data available Spray:1.8～9.5vol%
Flammability(Solid,Gas)	Combustible
Flammability or explosive limits	No data available
Vapor pressure	Liquid:No data available Spray:0.248～1.275MPa (40℃)
Vapor density	Liquid:No data available Spray:1.895～2.538kg/m3 (1MPa,15.6℃)
Specific Gravity (Density)	Liquid:0.803 (20℃) Spray:0.551 (15℃)
Solubility	Liquid:easily soluble in water Spray:soluble in water
Partition coefficient: n-octanol/water	Liquid:-0.30(lowPow)(as ethanol) Spray:No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available

10. STABILITY AND REACTIVITY

Reactivity	No information available
Chemical stability	Stable under normal conditions of use.
Possibility of hazardous reactions	No information available
Conditions to avoid	No information available
Incompatible materials	No information available
Hazardous decomposition products	No information available

11. TOXICOLOGICAL INFORMATION

Acute toxicity (Oral)	Not classified:64-17-5 (source: NITE) Not applicable:106-97-8 (source: NITE), 74-98-6 (source: NITE) No data:75-28-5 (source: None), N/A (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Acute toxicity (Dermal)	Not classified:64-17-5 (source: NITE) Not applicable:106-97-8 (source: NITE), 74-98-6 (source: NITE) No data:75-28-5 (source: None), N/A (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Acute toxicity (Inhalation : Gases)	Does not fall under gas based on GHS definitions.
Acute toxicity (Inhalation : Vapours)	Not classified:64-17-5 (source: NITE) Not applicable:75-28-5 (source: NITE), 106-97-8 (source: NITE), 74-98-6 (source: NITE) No data:N/A (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Acute toxicity (Inhalation : dust/mist)	Unable to classify due to insufficient data.
Skin corrosion/ Irritation	Not classified:64-17-5 (source: NITE), 75-28-5 (source: NITE), 74-98-6 (source: NITE) No data:106-97-8 (source: None), N/A (source: None) Contains substance of unknown toxicity. Changed from Not classified to Classification not possible.
Serious eye damage/ irritation	Category 2B:64-17-5 (source: NITE) Not classified:75-28-5 (source: NITE) No data:106-97-8 (source: None), 74-98-6 (source: None), N/A (source: None) Sum of Category 2B Concentration limit = 10%. Classification result = Category 2B.
Respiratory Sensitization	Unable to classify due to insufficient data.
Skin Sensitization	Unable to classify due to insufficient data.
Germ cell mutagenicity	Category 1B:75-28-5 (source: 1272/2008/EC), 106-97-8 (source: 1272/2008/EC) No data:64-17-5 (source: None), 74-98-6 (source: None), N/A (source: None) 106-97-8 >= 0.1% Classification result = Category 1B

Carcinogenicity	Category 1A:64-17-5 (source: NITE), 75-28-5 (source: 1272/2008/EC), 106-97-8 (source: 1272/2008/EC) No data:74-98-6 (source: None), N/A (source: None) 106-97-8 >= 0.1% Classification result = Category 1A
Reproductive toxicity	Category 1A:64-17-5 (source: NITE) No data:75-28-5 (source: None), 106-97-8 (source: None), 74-98-6 (source: None), N/A (source: None) 64-17-5 >= 0.1% Classification result = Category 1A
Reproductive toxicity, effects on or via lactation	Unable to classify due to insufficient data.
Specific target organ toxicity - Single exposure	Category 2:75-28-5 (organ = heart, source: NITE) Category 3:64-17-5 (organ = narcotic effect、respiratory tract irritation, source: NITE), 75-28-5 (organ = narcotic effect, source: NITE), 106-97-8 (organ = narcotic effect, source: NITE), 74-98-6 (organ = narcotic effect, source: NITE) No data:N/A (source: None) 75-28-5 >= 1% Classification result = Category 2(heart) Sum of Category 3(narcotic effect) Concentration limit = 20%. Classification result = Category 3(narcotic effect). Sum of Category 3(respiratory tract irritation) Concentration limit = 20%. Classification result = Category 3(respiratory tract irritation).
Specific target organ toxicity - Repeated exposure	Category 1:64-17-5 (organ = liver, source: NITE) Category 2:64-17-5 (organ = central nervous system, source: NITE) No data:75-28-5 (source: None), 106-97-8 (source: None), 74-98-6 (source: None), N/A (source: None) 64-17-5 >= 1% Classification result = Category 1(liver) 64-17-5 >= 1% Classification result = Category 2(central nervous system)
Aspiration hazard	Does not fall under solid, liquid based on GHS definitions.

12. ECOLOGICAL INFORMATION

No information available

13. DISPOSAL CONSIDERATIONS

Residual Waste	Before disposal, make the wastes harmless, stabilized, and neutralized, and minimize danger and toxicity of the wastes. Dispose of waste in accordance with local,state and federal regulations.

Contaminated Container and Packaging	Passed to a licensed waste contractor. In case of disposal of empty containers, remove the content thoroughly.

14. TRANSPORT INFORMATION

IMDG	
UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	–
IATA	
UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	–
DOT	
UN number	1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	2.1
Packing group	–

15. REGULATORY INFORMATION

California – Proposition 65	California – Proposition 65 – Carcinogens List California – Proposition 65 – Developmental Toxicity
U.S. – RTK (Right To Know) List	New Jersey – RTK (Right to Know) – Hazardous Substance List Pennsylvania – RTK (Right to Know) List Massachusetts – RTK (Right To Know) List
California – Safer Consumer Products – Informational List of Candidate Chemicals and Chemical Groups	California – Safer Consumer Products – Informational List of Candidate Chemicals and Chemical Groups

16. OTHER INFORMATION

Literature References	NITE GHS EU CLP Regulation, AnnexVI
Other data	The information suggested in this Safety Data Sheet does not comprehend everything and should be adopted only as a guide. The accuracy of the information and recommendations suggested herein are credible. However the company makes no warranty regarding such information and recommendations and disclaims all liability for reliance thereon.
National Fire Protection Association(U.S.A)	
Health	1
Flammability	4
Reactivity	0
Specific hazard	Not applicable
HMIS(U.S.A)	
Health Hazard	*3
Fire Hazard	4
Reactivity	4
Personal Protection	The customer is responsible for determining the PPE code for this material