SAFETY DATA SHEET

Issue Date 26-Sept-2014 **Revision Date** **Version** 1

1. IDENTIFICATION

Product Identifier
Product Name EL COR

Other means of identification
SDS# 033
UN/ID No UN1993
Product Code 0404, 0405, 0406, 0408

Recommended use of the chemical and restrictions on use
Recommended Use General purpose orange solvent cleaner with lanolin

Details of the supplier of the safety data sheet
Supplier Address
Lang Dental Mfg. Co., Inc.
175 Messner Dr.
Wheeling, IL 60090
USA

Emergency telephone number
Company Phone Number 847-215-6622
Emergency Telephone (INFOTRAC) 352-323-3500 (International)
800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity – Dermal	Category 4
Skin corrosion / irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable liquids	Category 3

Signal word
Warning

Hazard statements Harmful in contact with skin.
Causes skin irritation.
May cause an allergic skin reaction.
May cause respiratory irritation.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
Flammable liquid and vapor.

Appearance Colorless to slightly yellow **Physical state** Liquid **Odor** Fresh citrus orange

Precautionary Statements – Prevention
Use only outdoors or in a well-ventilated area.
Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves and clothing. Wear eye and face protection.
Contaminated clothing should not be allowed out of the workplace.
Avoid breathing dust, fume, gas, mist, vapors or spray.
Keep away from heat, spark, open flame and hot surface. NO SMOKING.
Keep container tightly closed.
Ground/bond container and receiving equipment.
Use explosion-proof equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Keep cool.

Precautionary Statements – Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation or rash occurs, get medical advice/attention.
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
IN CASE OF FIRE: Use CO_2, dry chemical or foam for extinction.

Precautionary Statements – Storage Store in a well-ventilated place.
Keep container tightly closed.
Store locked up.

Precautionary Statements – Disposal Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) May be harmful if swallowed

Other Information Very toxic to aquatic life with long lasting effects
Very toxic to aquatic life

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Family Orange Terpenes

Chemical Name	CAS No	Weight - %	Trade Secret
D-Limonene	5989-27-5	<69	*
Mineral Oil	8042-47-5	<30	*
Lanolin	8006-54-0	<1	*

*Specific chemical weight has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Inhalation	Remove victim to fresh air and keep at res in a position comfortable for breathing. Call a physician if symptoms persist.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If eye irritation persists, get medical advice/attention.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Do not leave victim unattended. Call a physician or poison control center immediately. Potential for aspiration if swallowed.
Skin Contact	Wash off immediately with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation develops/persists, get medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms	May cause skin and eye irritation. May cause irritation to the mucous membranes and upper respiratory tract.

Indication of any immediate medical attention and special treatment needed

Note to physicians	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Chemical foam, carbon dioxide (CO_2), dry chemical

Unsuitable: Water. Caution: Carbon dioxide will displace air in confined spaces and may create an oxygen deficient atmosphere.

Specific hazards arising from the chemical

When heated to decomposition, it emits acrid smoke and irritating fumes.

Hazardous Combustion Products:	Carbon oxides, acrid fumes
Sensitivity to Static Discharge:	Yes

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Fight fire from a safe location.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Extremely slippery when spilled. Isolate area. Use protective (Nitrile) gloves to avoid skin contact. Wear protective clothing as described in Section 8.
Other Information	Deny entry to unnecessary and unprotected personnel.
Environmental precautions	Prevent product from entering drains, sewers or streams.

Methods and material for containment and clean-up

Method for containment	Dike spill and prevent from entering sewers and waterways. Prevent further leakage or spillage if safe to do so. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

Method for clean-up	Use equipment rated for use around combustible materials. Rags soaked with oil may spontaneously combust. Place in appropriate disposal container.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling	Keep away from heat, spark, flame, hot surface and other sources of ignition (i.e. pilot light, electric motor, and static electricity). NO SMOKING. Avoid contact with skin and eyes. Use only in well-ventilated areas. Wash thoroughly after handling. Keep containers closed when not in use. Air should be excluded from partially filled containers by displacing with nitrogen. Do not cut, drill, grind or weld on or near this container; residual vapors may ignite. Use personal protection recommended in Section 8. Contaminated work clothing should not be allowed out of the workplace. Use spark-proof tools and explosion-proof equipment. Take precautionary measures against static discharges. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in an area equipped with sprinklers. Storage temperature should not exceed the flash point for extended periods of time. Store locked up.
Packaging materials	Product may be packaged in phenolic-lined steel containers or fluorinated plastic containers.
Incompatible materials	Strong oxidizing agents, strong acids (including acidic clays, peroxides, halogens vinyl chloride and iodine pentafluoride)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Appropriate engineering controls

Engineering controls	Apply technical measures to comply with the occupational exposure limits. Eyewash stations, showers

Individual protection measures, such as personal protective equipment

Eye / face protection	Wear approved safety goggles. Wear coverall chemical splash goggles and face shield when possibility exists for eye and face contact due to splashing or spraying material.
Skin and body protection	Wear suitable protective clothing.
Respiratory protection	None required if good ventilation is maintained. If exposure exceeds occupational limits (Sec II), use a NIOSH approved respirator to prevent overexposure. If permissible levels are exceeded, use NIOSH mechanical filter/organic vapor cartridge or an air-supplied respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Wash hands thoroughly after handling. Launder contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	**Odor**	Fresh citrus orange
Appearance	Liquid	**Odor threshold**	Not determined
Color	Clear to slightly yellow		

Property	**Values**	**Remarks / Method**
pH	Not determined	
Melting point / freezing point	-96°C / -140° F	
Boiling point / boiling range	176°C / 349° F	Thickens at -78 C (-108 F)
Flash point	50°C / 122°F	
Evaporation rate	0.2	Butyl acetate = 1
Flammability (solid, gas)	n/a (liquid)	
Flammability limits in air		
Upper flammability limit	Not determined	
Lower flammability limit	Not determined	
Vapor pressure	<2 mm Hg	@ 20°C
Vapor density	Not determined	
Specific gravity	0.851	@ 20°C Water = 1
Water solubility	Insoluble in water	
Solubility in other solvents	Not determined	
Partition coefficient	Not determined	
Autoignition temperature	Not determined	
Decomposition temperature	Not determined	
Kinematic viscosity	Not determined	
Dynamic viscosity	Not determined	
Explosive properties	Not determined	
Oxidizing properties	Not determined	

Other information

VOC Content (%) >95%

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions

Chemical stability Stable under recommended storage conditions

Possibility of hazardous reactions To prevent oxidation, avoid long-term exposure to air. If storing partially filled container, fill headspace with an inert gas such as nitrogen or carbon dioxide.

Conditions to avoid Heat, flames and sparks

Incompatible materials Strong oxidizing agents, strong acids (toxic clays, peroxides, halogens, vinyl chloride, iodine pentafluoride)

Hazardous decomposition products Oxides of citrus terpenes, which can result from improper storage and handling, are known to cause skin sensitization

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information

Inhalation	Avoid breathing vapors or mists.
Eye contact	Avoid contact with eyes.
Skin contact	Harmful in contact with skin. Causes skin irritation.
Ingestion	May be harmful if swallowed.

Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
D-Limonene 5989-27-5	4400 mg/kg (rat)	>2000 g/kg (rabbit)	-
Mineral Oil 8042-47-5	>5000 mg/kg (rat)	-	-
Lanolin 8006-54-0	>5000 mg/kg (rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms May cause skin and eye irritation. May cause irritation to the mucous membranes and upper respiratory tract.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization May cause allergic skin reaction.

Carcinogenicity Not classifiable as a human carcinogen

Chemical Name	ACGIH	IARC	NTP	OSHA
D-Limonene 5989-27-5	-	Group 3	-	-

IARC (International Agency for Research on Cancer)
Group 3 IARC components are "not classifiable as human carcinogens"

STOT – single exposure May cause respiratory irritation. May cause drowsiness or dizziness.
Aspiration hazard May be fatal if swallowed and enters airways.
Numerical measures of toxicity – Product Not determined

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral)	4570	mg/kg
ATEmix (dermal)	1100	mg/kg

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects. There is no available at this time for this product. However, a spill may produce significant toxicity to aquatic organisms and ecosystems. Some studies have shown that certain bacteria and fungi have the ability to degrade terpenes, decreasing toxicity to fish. When spilled, this product may act as oil, causing a film, sheen, emulsion or sludge at or beneath the surface of a body of water.

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
D-Limonene 5989-27-5	-	0.619-0.796:96 h Pimephales promelas mg/L LC50 flow-through; 35: 96 h Oncorhynchus mykiss mg/L LC50	-	-
Mineral Oil 8042-47-5	-	10000: 96 h Lepomis macrochirus mg/L LC50	-	-

Persistence and degradability Material is readily biodegradable

Bioaccumulation This material is not expected to significantly bioaccumulate

Mobility Citrus terpenes volatize rapidly

Chemical Name	Partition coefficient
Mineral Oil 8042-47-5	>6

Other adverse effects Not determined

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Incinerate or dispose of in accordance with local, state and federal regulations. Taking regulations into consideration, waste may be incinerated or handled through EPA Spill Control Plan via landfill or dilution. Oil soaked rags should be disposed of properly to prevent spontaneous combustion.

Contaminated Packaging Commercially clean containers prior to disposal.

Chemical Name	California Hazardous Waste Status
D-Limonene 5989-27-5	Toxic

14. TRANSPORTATION INFORMATION

DOT

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Terpene Hydrocarbons/Mineral Oil Solution)
Hazard Class	3
Packing Group	III

IATA

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Terpene Hydrocarbons/Mineral Oil Solution)
Hazard Class	3
Packing Group	III

IMDG

UN / ID No	UN1993
Proper shipping name	Flammable liquid, n.o.s. (Terpene Hydrocarbons/Mineral Oil Solution)
Hazard Class	3
Packing Group	III

15. REGULATORY INFORMATION

International Inventories

DSL Listed Canadian Domestic Substances List

US Federal Regulations

SARA 311 / 312 Hazard Categories

US State Regulations

US State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania

Lanolin 8006-54-0	-	-	X

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability
	1	2	0
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**
	Not determined	Not determined	Not determined

Issue Date 26-Sept-2014
Revision Date
Revision Note

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification. The 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, unless specified in the text.

End of Safety Data Sheet