SAFETY DATA SHEET

Issue Date 26-Sept-2014 **Revision Date** 26-Aug-2015 **Version** 2

1. IDENTIFICATION

Product Identifier

Product Name SILICONE SPRAY

Other means of identification

SDS# 027
UN/ID No UN1950
Product Code 0304

Recommended use of the chemical and restrictions on use

Recommended Use Dry lubricant and release agent

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

Flammable aerosols	Category 1
Serious eye damage / eye irritation	Category 2A
Reproductive toxicity (fertility, the unborn child)	Category 2
Specific target organ toxicity (single exposure)	Category 3 narcotic effects
Aspiration hazard	Category 1

Signal word Danger

Hazard statements
H222 Extremely flammable aerosol
H304 May be fatal if swallowed and enters airways.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child

Precautionary Statements – Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
P211 Do not spray near or on an open flame or other ignition source.
P251 Pressurized container: Do not pierce or burn, even after use.
P261 Avoid breathing gas.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves, protective clothing, eye protection and face protection.

Precautionary Statements – Response

P301+P310 IF SWALLOWED: Immediately call a poison center or doctor.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 If exposed or concerned: Get medical advice or attention.
P312 Call a poison center or doctor if you feel unwell.
P331 Do NOT induce vomiting.
P337+P313 If eye irritation persists, get medical advice / attention.

Precautionary Statements – Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed
P410+P412 Protect from sunlight. Do not store at temperatures above 50°C / 122°F.

Precautionary Statements – Disposal

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Components Chemical Name	CAS No	Weight - %	Trade Secret
Acetone	67-64-1	20 - 40	*
Butane	106-97-8	20 - 40	*
Propane	74-98-6	20 - 40	*
n-Heptane	142-82-5	2.5-10	*
Solvent naphtha (petroleum), light aliphatic	64742-89-8	2.5-10	*
Cyclohexane	110-82-7	1-2.5	*
n-Hexane	110-54-3	0.1-1	*
Toluene	108-88-3	0.1-1	*

Other components below reportable levels

*Specific CAS No and chemical weight have been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin Contact Rinse skin with water/shower.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do NOT induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms and effects, both acute and delayed

Symptoms Aspiration may cause pulmonary edema and pneumonitis. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Indication of any immediate medical attention and special treatment needed

Note to physicians Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General Advice Take off all contaminated clothing immediately. Wash contaminated clothing before use. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable: Water fog, dry chemical powder, alcohol-resistant foam, carbon dioxide (CO_2)
Unsuitable: Water jet (will spread the fire)

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous t health may be formed.

Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Environmental precautions Avoid discharge into drains, water courses or onto the ground. Environmental Manager must be informed of all major releases.

Methods and material for containment and clean-up

Method for containment Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable.

Method for clean-up Wipe up with absorbent material (e.g. cloth, fleece). Clean contaminated surface thoroughly to remove residual contamination.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Do not handle near an open flame, heat or other sources of ignition. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not spray on a naked flame or any other incandescent material. Use only in well-ventilated areas. Provide adequate ventilation. Avoid breathing fumes, gas, mist, vapors or sprays. Do not get in eyes, on skin or on clothing. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not re-use empty containers. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C / 122°F. Do not puncture, incinerate or crush. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Store locked up. Store away from incompatible materials (See Section 10.)

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure guidelines

Occupational exposure limits

U.S. OSHA Table z-1 Limits for Air Contaminants (29 CFR 1910-1000)

Chemical Name	OSHA PEL
Acetone 67-64-1	2400 mg/m^3 1000 ppm
Cyclohexane 110-82-7	1050 mg/m^3 300 ppm
n-Heptane 142-82-5	2000 mg/m^3 500 ppm
n-Hexane 110-54-3	1800 mg/m^3 500 ppm
Propane 74-98-6	1000 ppm 1800 mg/m^3

U.S. OSHA Table z-2 (29 CFR 1910-1000)

Chemical Name	OSHA TWA
Toluene 108-88-3	Ceiling 300 ppm TWA 200 ppm

ACGIH

Chemical Name	OSHA TWA
Solvent naphtha (petroleum), light aliph. 64742-89-8	TWA 400 ppm

U.S, ACGIH Threshold Limit Values

Chemical Name	ACGIH TLV
Acetone 67-64-1	STEL 750 ppm TWA 500 PPM
Butane 106-97-8	STEL 1000 ppm
Cyclohexane 110-82-7	100 ppm

n-Heptane 142-82-5	STEL 500 ppm TWA 400pm
n-Hexane 110-54-3	TWA 50 ppm
Toluene 108-88-3	TWA 20 ppm

U.S. NIOSH

Chemical Name	NIOSH
Acetone 67-64-1	590 mg/m^3 250 ppm
Butane 106-97-8	1900 mg/m^3 800 ppm
Cyclohexane 110-82-7	1050 mg/m^3 300 ppm
n-Heptane 142-82-5	1800 mg/m^3 440 ppm 350 mg/m^3 85 ppm
n-Hexane 110-54-3	180 mg/m^3 50 ppm
Propane 74-98-6	1800 mg/m^3 1000 ppm
Toluene 108-88-3	560 mg/m^3 150 ppm 375 mg/m^3 100 ppm

Appropriate engineering controls

Engineering controls Explosion-proof general and local exhaust ventilation. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye / face protection Wear approved safety goggles.

Skin and body protection Wear protective gloves.

Respiratory protection None required if good ventilation is maintained. If exposure exceeds occupational exposure limits (Section 11), use 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Aerosol	**Odor**	Not available
Appearance	Compressed liquefied gas	**Odor threshold**	Not determined
Color	Colorless		

Property	Values	Remarks / Method
Flash point	-104.44°C / -156°F	Propellant estimated
Autoignition	232.86°C / 451.14°F	
Vapor pressure	50 - 70 psig	@ 21.1°C / 70°F, estimated
Specific gravity	0.759-0.769	Estimated; water = 1

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions

Possibility of hazardous reactions Hazardous polymerization does not occur.

Conditions to avoid Heat, flames, sparks and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents. Nitrates. Fluorine. Chlorine.

Hazardous decomposition products None known

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposures

Product information

Ingestion Smallest quantities reaching the lungs through swallowing or subsequent vomiting may result in lung edema or pneumonia. May be fatal if swallowed and enters airways.

Inhalation May cause drowsiness and dizziness. Headache. Nausea, vomiting. Narcotic effects. Prolonged Inhalation may be harmful.

Skin contact Causes mild skin irritation; not expected to cause skin sensitization.

Eye contact Causes serious eye irritation.

Component information

Chemical Name	ORAL LD50	DERMAL LD50	INHALATION LC50
Acetone 67-64-1	5800 mg/kg (rat) 2.2 ml/kg	> 7426 mg/kg, 24 h (guinea pig) > 9.4 mg/kg, 24 h > 7426 mg/kg, 24 h > 9.4 mg/kg, 24 h	55700 ppm, 3 h (rat) 132 mg/l, 3 h 50.1 mg/l
Butane 106-97-8	-	-	1237 mg/l (mouse) 120 min 52%, 120mins 1355 mg/l (rat)
Cyclohexane 110-82-7		> 2000 mg/kg (rabbit)	>32880 mg/m3, 4 h (rat) >5540 ppm, 4 h (rat)
n-Heptane 142-82-5		> 2000 mg/kg 24 h(rabbit)	>29.29 mg/l, 4 h (rat)
n-Hexane 110-54-3	24 ml/kg (rat) 24 g/kg 49 g/kg	> 2000 mg/kg 4 h(rabbit) >5 ml/kg, 4 h	>5000 ppm, 24 h (rat) >31.86 mg/l 73860 ppm, 4 h
Propane 74-98-6	-		1237 mg/L (mouse) 120 mins 52%, 120 mins 1355 mg/l (rat) 658 mg/l/4h
Solvent naphtha (petroleum), light aliphatic 64742-89-8	> 4820 mg/kg (rat)	>1900 mg/kg 24 h (rabbit)	>5020 mg/m3, 4 h (rat) >4980 mg/m3 >4980 mg/m3, 4 h >4.96 mg/l, 4 h
Toluene 108-88-3	> 5000 mg/kg (rat)	> 5000 mg/kg 24 h (rabbit)	6405-7436 ppm, 6 h (mouse) 5320 ppm, 8 h 5879-6281 ppm, 6 h > 5.2 mg/L (rat) 4 h 12.5-28.8 mg/l. 4 h

Information on physical, chemical and toxicological effects

Symptoms Aspiration from swallowing or vomiting may cause chemical pneumonia, pulmonary injury or death. Causes serious eye irritation. Symptoms may include stinging, tearing, redness, swelling and blurred vision. Skin irritation. May cause central nervous system effects, Symptoms of overexposure may be headache, dizziness, fatigue, nausea and vomiting.

Information on toxicological effects

Acute toxicity May be fatal if swallowed and enters airways. Narcotic effects. Expected to be a low hazard for usual industrial or commercial handling by trained personnel.

Germ cell mutagenicity No data available to indicate product or any components present at >0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP or OSHA.

Reproductive toxicity Suspected of damaging the unborn child. Suspected of damaging fertility

Specific target organ toxicity

Single exposure Narcotic effects

Repeated exposure Not classified

12. ECOLOGICAL INFORMATION

Ecotoxicity Toxic to aquatic life with long-lasting effects

Component information

Chemical Name	Algae / aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Acetone 67-64-1	-	4740-6330 mg/l, 96 h Oncorhynchus mykiss LC50	EC50 = 14500 mg/L 15 min	21.6-23.9 mg/L: 48 h Daphnia magna EC50
Cyclohexane 110-82-7		23.30-42.07 mg/l, 96 h Pimephales promelas LC50		
n-Heptane 142-82-5		375 mg/l, 96 h Tilapia mossambica LC50		
n-Hexane 110-54-3		2.101-2.981 mg/l, 96 h Pimephales promelas LC50		
Solvent naphtha (petroleum), light aliphatic 64742-89-8	4700 mg/L: 72 h Algae IC50	-	-	-
Toluene 108-88-3	433.0001 mg/L, 72 h Algae IC50	8.11 mg/l, 96 h Oncorhynchus kisutch LC50		7.645 mg/L, 48 h Daphnia EC50 5.46-9.83 mg/l, 48 h Daphnia Magna EC50

Persistence and degradability Not determined

Bioaccumulation potential No data available

Mobility in soil No data available

Chemical Name	CAS No	Partition coefficient
Acetone	67-64-1	-0.24
Butane	106-97-8	2.89

Cyclohexane	110-82-7	3.44
N-heptane	142.82-5	4.66
N-hexane	110-54-3	3.9
Propane	74-98-6	2.36
Toluene	108-88-3	2.73

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Dispose of in accordance with federal, state and local regulations. Do not empty into drains. Dispose of this material and its sealed container at hazardous or special waste collection point.

Contaminated Packaging Dispose of in accordance with federal, state and local regulations. Pressurized container: Do not pierce or burn, even after use. Empty container fully, including gas pressure. Emptied containers may retain product residue.

US EPA Waste Number Should be assigned in discussion with the user, the producer and the waste disposal company.

Chemical Name	CAS No	RCRA – U Series Wastes
Acetone	67-64-1	U002
Cyclohexane	110-82-7	U056
Toluene	108-88-3	U220

14. TRANSPORTATION INFORMATION

DOT

UN / ID No	UN1950
Proper shipping name	Aerosols, flammable
Hazard Class	2.1

IATA

UN / ID No	UN1950
Proper shipping name	Aerosols, flammable
Hazard Class	2.1
Environmental hazards	Yes

IMDG

UN / ID No	UN1950
Proper shipping name	Aerosols, flammable
Hazard Class	2.1
Marine pollutant	Yes

15. REGULATORY INFORMATION

International Inventories

TSCA	Listed	United States Toxic Substances Control Act Section 8(b) Inventory
DSL	Listed	Canadian Domestic Substances List
EINECS	Listed	European Inventory of Existing Chemical Substances
AICS	Listed	Australian Inventory of Chemical Substances
IECSC	Listed	Inventory of Existing Chemical Substances in China
ENCS	Listed	Inventory of Existing and New Chemical Substances (Japan)
KECL	Listed	Korean Existing and Evaluated Chemical Substances List
	Listed	New Zealand Inventory

PICCS	Listed	Philippine Inventory of Chemicals and Chemical Substances

US Federal Regulations

SARA Hazard Categories	Immediate hazard	Yes
	Delayed hazard	Yes
	Fire hazard	Yes
	Pressure hazard	Yes
	Reactivity hazard	No

US State Right-to-Know Regulations

Chemical Name	New Jersey Worker and Community Right-to-Know Act	Pennsylvania RTK-Hazardous Substance
Propane 74-98-6	X	X
Butane 106-97-8	X	X
Acetone 67-64-1	-	X

California Proposition 65 – Warning: This product contains a chemical known to the state of California to cause birth defects or other reproductive harm.

16. OTHER INFORMATION

NFPA	Health Hazards	Flammability	Instability	Special Hazards
	Not determined	Not determined	Not determined	Not determined
HMIS	**Health Hazards**	**Flammability**	**Physical Hazards**	**Personal Protection**
	1	4	0	Not determined

Issue Date	26-Sept-2014
Revision Date	26-Aug-2015
Revision Note	Section 2 – Add hazard and precautionary codes, rephrase hazard statements; add environmental information; Section 3 – Add hazardous components; Section 4 – Rephrase first aid measures; Section 8 – Add chemicals and resort Exposure guidelines; Section 9 – Add Autoignition, change Specific Gravity; Section 10 – Rephrase each topic; Section 11 – Change Information on routes of exposures, add Component information, information on toxicological effects; Section 12 – Change in component information.

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 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