

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Great Lakes Cleaner and Lubricant (PART 1: Liquid Detergent)
Product Number: 100-003

Effective Date: 05/14/13

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

Primary Routes of Entry

- Ingestion
- Skin Contact
- Eye Contact

Medical Conditions Aggravated by Exposure

- None known.

Human Effects and Symptoms of Overexposure: Acute & Chronic

Skin

Transient irritation with prolonged exposure to concentrated material.

Eyes

May cause transient irritation.

Ingestions

May cause transient gastrointestinal irritation.

General Effects of Exposure

- Skin – Prolonged contact with concentrated material may be drying.
- Eyes – May cause stinging, tearing, itching, swelling and/or redness.
- Ingestion – May result in nausea, vomiting, and/or diarrhea.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>Common Name</u>	<u>CAS #</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>	<u>Other Limits</u>
Ethanol	Ethyl Alcohol	64-17-5	1000ppm	1000 ppm	Not Known
					1900 mg/m ³

SECTION 4. FIRST AID MEASURES

Eye Contact

Flush with water for 10 – 15 minutes.

Skin Contact

If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes.

Ingestion

Drink 1 or 2 glasses of water.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water, Dry chemical, Carbon Dioxide (CO₂)

Special Fire Fighting Procedures

None. Although this product has a flash point below 200° F (closed cup), it is an aqueous solution containing ethyl alcohol which does not sustain combustion.

Unusual Fire / Explosion Hazards

None known.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Flush down acceptable sewer (contains biodegradable surfactants). Prevent large spills from reaching waterway. Sorbents may be used.

SECTION 7. HANDLING & STORAGE

Handling / Storage Precautions

No unusual precautions necessary.

Further Info on Storage Conditions

None required.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation Measures

- Local Exhaust – None required.
- Mechanical (general) - Acceptable

Respiratory Protection

None required.

Hand Protection

Protective gloves not required with normal use.

Eye Protection

None required with normal use. If a splash is possible, use goggles.

Additional Protective Measures

None required with normal use.

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance** – Liquid
- **Color** – Clear
- **Odor** – Perfumed
- **PH (10% Solution)** – 7.4
- **Flash Point** - 180° F (closed cup)
- **Solubility in Water** – Complete
- **Specific Gravity (H₂O=1)** – 1.03
- **Percent Volatile by Volume (%)** – 60%

Not Applicable: Boiling Point, Vapor Pressure, Vapor Density, and Evaporation Rate.

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Stable

Materials to Avoid – None known

Conditions to Avoid – None known

Hazardous Decomposition Products – None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Not applicable.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

Not applicable.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Do not landfill. Small (household) quantities may be disposed of via sewer. Incineration is preferred where permitted by federal, state, and local regulations. Disposal is to be performed in compliance with all regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Combustible liquid not regulated in packaging of less than 119 gallons. When shipped in bulk, classified as compounds cleaning liquid, class 3 (NA 1993).
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)
--

Not applicable

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health** – 1
- **Flammability** – 0
- **Physical Hazard** – 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

* = Chronic Health Hazard

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Great Lakes Cleaner and Lubricant (Part 2 – Blue Food Color)
Product Number: 100-003

Effective Date: 05/14/13

SECTION 2. HAZARDOUS IDENTIFICATION

Potential Health Effects:

All ingredients contained in this product are approved for use in a regulation of the Food and Drug Administration or on the FEMA GRAS List. Based on health hazard determination of ingredients contained at a concentration of one percent or greater, this mixture may exhibit the following health hazards:

Primary Routes of Entry

- Ingestion
- Skin Contact
- Eye Contact
- Inhalation

Medical Conditions Aggravated by Exposure

- None known.

Human Effects and Symptoms of Overexposure: Acute & Chronic

Skin

May be irritating to skin.

Eyes

May be irritating to eyes.

Ingestions

Does not constitute a health hazard.

Inhalation

Inhalation may cause respiratory irritation.

Chronic Effects or Exposure

Prolonged or repeated exposure may cause allergic reaction in certain sensitive individuals.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>
Propylene Glycol	57-55-6
FD& C Blue #1	

SECTION 4. FIRST AID MEASURES

Eye Contact

In the event of contact with eyes, irrigate with water for 15 minutes; obtain medical advice immediately.

Skin Contact

Remove contaminated clothes. Wash affected area with water. If irritation persists, obtain medical advice.

Ingestion

In the event of accidental ingestion, rinse mouth with water. Give up to one tumbler (half pint) of milk or water. Obtain medical advice immediately.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Water, Foam, Dry chemical, Carbon Dioxide (CO₂)

Special Fire Fighting Procedures

Use standard procedures and preferred extinguishing media above.

Unusual Fire / Explosion Hazards

None known.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Land Spill – Absorb spill with inert material (e.g., cloth, sand, sawdust) and then place in suitable containers for recycling or disposal. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal disposal regulations.

Water Spill – Prevent additional discharge of material, if possible to do so without hazard. Advise authorities if floating material enters a watercourse or sewer. If possible, try to contain floating material and skim from surface. Consult an expert on disposal of recovered material and ensure conformity to local, state, and federal disposal regulations.

Personal Precautions

Wear appropriate personal protective equipment when cleaning up spills. Refer to Section 8.

SECTION 7. HANDLING & STORAGE

Handling

Keep product away from heat and open flame. Keep container closed when not in use. See Section 8 for additional personal protection advice when handling this product.

Storage Precautions

Store in cool, dry area with adequate ventilation.

Further Info on Storage Conditions

Empty containers may retain residue (including vapors) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, static electricity, or other sources of ignition; they may explode and cause injury or death. Do not attempt to refill or clean container since residue is difficult to remove. Empty drums should be completely drained, properly bunged, and properly returned to a drum re-conditioner. All containers should be disposed of in an environmentally safe manner and in accordance with government regulations.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene

Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Ventilation Measures

Ventilation should be provided to control worker exposures and prevent health risk.

Respiratory Protection

Respiratory protection recommended when adequate ventilation is not available. Whenever workplace conditions warrant a respirator's use, seek professional guidance prior to respirator selection and follow OSHA respirator regulations (29 CFR 1910.134).

Hand Protection

Where contact is likely, wear protective gloves or clothing.

Eye Protection

Safety glasses recommended.

Additional Protective Measures

None required.

Exposure Guidelines: OSHA PEL – ACGIH TLV – ACGIH STEL - Supplier

Propylene Glycol -	None	None	None	None
--------------------	------	------	------	------

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance** – Liquid
- **Odor** – Odorless
- **Flash Point** - > 89° C / > 210° F
- **Solubility in Water** – Soluble
- **Density** – 8.49lb / Gallon

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Presents no significant reactivity hazard.

Materials to Avoid – Avoid Extreme heat and high energy sources of ignition.

Hazardous Decomposition Products – Product does not undergo explosive decomposition.

SECTION 11. TOXICOLOGICAL INFORMATION

Not established.

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

No specific ecological data are available for this product. Please refer to Section 6 for information regarding accidental releases and Section 15 for regulatory reporting information.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Incineration of sanitary landfill in accordance with local, state, and federal regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Not regulated by road. Consult your transportation compliance group for possible classifications pertaining to other modes of transport.
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)

All ingredients contained in this product are approved for use in a regulation of the food and drug Administration or on the FEMA GRAS list.

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health** – 1
- **Flammability** – 1
- **Physical Hazard** – 1

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

* = Chronic Health Hazard

SAFETY DATA SHEET

SECTION 1. IDENTIFICATION



Great Lakes Orthodontics
200 Cooper Ave
Tonawanda, NY 14150

716-871-1161
800-828-7626
CHEMTREC: 800-424-9300

Product Name: Great Lakes Cleaner and Lubricant (Part 3 – Mineral Oil)
Product Number: 100-003

Effective Date: 05/14/13

SECTION 2. HAZARDOUS IDENTIFICATION

- Keep out of reach of children.
- Oil mist targets the lungs, skin, respiratory system and eyes.

Potential Health Effects:

Primary Routes of Entry

- Ingestion
- Skin Contact
- Eye Contact
- Inhalation

Medical Conditions Aggravated by Exposure

- None known.

Human Effects and Symptoms of Overexposure:

Skin

None expected.

Eyes

May cause irritation to eyes.

Ingestions

May cause nausea, vomiting, and diarrhea.

Inhalation

May cause irritation of the respiratory tract.

Chronic Effects or Exposure

No information available.

Carcinogenicity

No carcinogenic substances as defined by IARC, NTP and / or OSHA.

SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Hazardous Components</u>	<u>CAS #</u>	<u>% by Wt.</u>
Mineral Oil	8012-95-1	99%

SECTION 4. FIRST AID MEASURES

Eye Contact

Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

Skin Contact

If irritation is experienced, flush with water. If irritation persists, get medical attention.

Ingestion

Do not induce vomiting. If the material is swallowed, get medical attention or advice.

Inhalation

If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION 5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media

Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into container of hot, burning liquid.

Special Fire Fighting Procedures

Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self-contained breathing apparatus.

Unusual Fire / Explosion Hazards

Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill and Leak Procedures

Prevent discharge to open waters. Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite, or diatomaceous earth. Ventilate area of leak or spill. Use speak-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

Personal Precautions

For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

SECTION 7. HANDLING & STORAGE

Handling

Keep away from heat, sparks, and flame. Prevent contact with eyes. Avoid inhalation.

Storage Precautions

Keep the container tightly closed and in a cool, well ventilated place.

Further Info on Storage Conditions

None.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Industrial Hygiene

None needed under normal use.

Ventilation Measures

Normal room ventilation is usually adequate under normal use.

Respiratory Protection

None needed under normal use.

Hand Protection

None needed under normal use.

Eye Protection

None needed under normal use.

Additional Protective Measures

None required.

Exposure Guidelines:

Mineral Oil Mist (64-17-5) - OSHA: 5 mg/m³ TWA

SECTION 9. PHYSICAL & CHEMICAL PROPERTIES

- **Appearance** – Oily Liquid
- **Color** - Colorless
- **Odor** – Characteristic
- **Flash Point** - 193° C (open cup)
- **Solubility in Water** – Not Soluble
- **Specific Gravity @ 25° C** – 0.8 – 0.9

Not available – PH, Vapor Density, Boiling Point, Vapor Pressure, Melting Point, Freezing Point, Evaporation Rate, Auto-ignition Temperature, Decomposition Temperature, Auto Ignition, and Octanol/water partition coefficient (Kow).

SECTION 10. STABILITY & REACTIVITY

Hazardous Reactions – Hazardous polymerization will not occur.

Stability – Stable under normal ambient temperatures 70° F (21° C).

Materials to Avoid – This product reacts with strong acid, strong bases, and oxidizing agents.

Conditions to Avoid – Avoid excessive heat or sources of ignition.

Hazardous Decomposition Products – Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

SECTION 11. TOXICOLOGICAL INFORMATION

Mineral Oil (8012-95-1)

Oral LD50: 22 g/kg (Mouse)

SECTION 12. ECOLOGICAL INFORMATION (non-mandatory)

No information available for product.

SECTION 13. DISPOSAL CONSIDERATIONS (non-mandatory)

Waste Disposal Method

Dispose of in accordance with federal, state, and local regulations.

SECTION 14. TRANSPORT INFORMATION (non-mandatory)

- **Land Transport (DOT):** Non - regulated
- **Sea Transport (IMDG):** Non – regulated
- **Air Transport (ICAO/IATA):** Non – regulated

SECTION 15. REGULATORY INFORMATION (non-mandatory)

The following components appear on one or more of the following state hazardous substance lists:

Mineral Oil (8012-95-1): **Yes** – CA, MA, MN, NJ, PA

SECTION 16. OTHER INFORMATION (non-mandatory)

HMIS Rating:

- **Health** – 0
- **Flammability** – 1
- **Physical Hazard** – 0

0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

* = Chronic Health Hazard