


SAFETY DATA SHEET

| 1. Product and Company Identification | | | |
|---------------------------------------|---|-----------------------------|----------------|
| PRODUCT NUMBER: | 1776 | COMPANY PHONE: | 1-800-241-8180 |
| PRODUCT NAME: | GL 50 | EMERGENCY TELEPHONE: | 1-800-535-5053 |
| PRODUCT DESCRIPTION: | Aerosol High-Temperature Dry Graphite Lubricant | INFOTRAC: | 1-800-535-5053 |
| COMPANY INFORMATION: | PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004 | | |

| 2. Hazards Identification | | | |
|---|--------------------------------------|----------------|---|
| GHS CLASSIFICATION: Flammable Aerosol: Category 1 H222 Skin Irritation: Category 2 H315 Mutagenicity: Category 1B H340 Carcinogenicity: Category 1A H350 Specific target organ toxicity (single exposure): Category 3 H336 Specific target organ toxicity (repeated exposure): Category 2 H373 Aspiration Hazard: Category 1 H304 | SIGNAL WORD: DANGER | SYMBOL: |  |

HAZARD STATEMENTS:
 Extremely flammable aerosol. May be fatal if swallowed and enters airways. Causes skin irritation. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer (Inhalation). May cause damage to organs through prolonged or repeated exposure.

PRECAUTIONARY STATEMENTS:
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat, hot surfaces, open flames, sparks. No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Do not breathe fume, gas, mist, spray, vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear eye protection, protective clothing, protective gloves.
Response: IF SWALLOWED: Immediately call a doctor, a POISON CENTER. IF ON SKIN: Wash with plenty of water. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF EXPOSED OR CONCERNED: Get medical advice/attention. Call a doctor, a POISON CENTER if you feel unwell. Do NOT induce vomiting. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal: Dispose of contents/container to comply with local/regional/national/international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:
 No additional information available.

ADDITIONAL INFORMATION:
 Not applicable.

| 3. Composition / Information on Ingredients | | | |
|---|------------|---------------------------|---|
| Chemical Name | CAS | Concentration % by Weight | CLASSIFICATION (GHS-US) |
| Toluene | 108-88-3 | 45-70 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| Crystalline Silica | 14808-60-7 | 0.1-1 | Carc. 1A, H350 STOT RE 1, H372 |
| Benzene | 71-43-2 | 01.1 | Flam Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Muta. 1B, H340 Carc. 1A, H350 STOT RE 1, H372 Asp. Tox. 1, H304 |
| Ethylbenzene | 100-41-4 | 0.1-1 | Flam. Liq. 2, H225 Acute Tox. 4 (Inhalation: vapor), H332 Carc. 2, H351 STOT RE 2, H373 Asp. Tox. 1, H304 |

A specific chemical and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is batch variation.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: If you feel unwell, seek medical advice (show the label where possible). If exposed or concerned: Get medical advice/attention.

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.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. If skin irritation occurs: Get medical advice/attention.

INHALATION:

If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or a doctor if you feel unwell.

INGESTION:

Do NOT induce vomiting. Rinse mouth with water. Immediately call a poison center or doctor/physician.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Symptoms/effects: May be fatal if swallowed and enters airways. May cause drowsiness or dizziness. May cause genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure.

Symptoms/injuries after inhalation: May cause respiratory irritation. Central nervous system depression. Prolonged exposure: danger of damage to health through inhalation.

Symptoms/injuries after skin contact: Causes skin irritation.

Symptoms/injuries after eye contact: Direct contact with the eyes is likely irritating.

Symptoms/injuries after ingestion: May be fatal if swallowed and enters airways.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Foam. Carbon dioxide. Dry chemical powder.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Fire hazard: Extremely flammable aerosol.

Explosion hazard: Pressurized container: may burst if heated. Vapors may travel long distances along ground before igniting/flashing back to vapor source.

Reactivity: Upon combustion: CO and CO₂ are formed.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measures

GENERAL MEASURES:

Isolate from fire, if possible, without unnecessary risk. Eliminate every possible source of ignition.

PERSONAL PRECAUTIONS:

For non-emergency personnel:

Protective equipment: Protective goggles. Gloves. Protective clothing.

Emergency procedures: Evacuate unnecessary personnel. Avoid contact with skin, eyes and clothing. Ventilate spillage area.

For emergency responders:

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Stop leak, if safe to do so. Stop release. Ventilate area.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment. Prevent entry to sewers and public waters.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

For containment: Contain released substance, pump into suitable containers.

Methods for cleaning up: This material and its container must be disposed of in a safe way and as per local legislation.

REFERENCE TO OTHER SECTIONS:

No additional information available.

7. Handling and Storage

SAFE HANDLING:

Do not puncture, incinerate or crush. Do not use if spray button is missing or defective. Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink or smoke when using this product. Do not get in eyes, on skin or on clothing. Obtain special instructions before use. Do not breathe gas/vapor/aerosol. Do not cut, weld, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition. Do not reuse empty containers. Handle unclean empty containers as full ones. Wash thoroughly after handling. Wash contaminated clothing before reuse.

SAFE STORAGE & INCOMPATIBILITIES:

Comply with applicable regulations. Keep cool. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Incompatible with sources of ignition, direct sunlight and heat sources. KEEP SUBSTANCE AWAY FROM: Ignition sources. Heat sources.

Storage area: Meet the legal requirements. Store in a cool area. Store in a dry area.

Special rules on packaging: Meet the legal requirements.

8. Exposure Controls / Personal Protection

Crystalline Silica (14808-60-7)

| | | |
|------|-------------------------------------|--------------------|
| OSHA | OSHA PEL (TWA) (mg/m ³) | 0.1 |
| OSHA | Remark (OSHA) | (3) See Table Z-3. |

Toluene (108-88-3)

| | | |
|-------|-----------------|--|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | Visual impair; female repro; pregnancy loss; A4: BEI |
| OSHA | Remark (OSHA) | (2) See Table Z-2. |

Benzene (71-43-2)

| | | |
|-------|------------------|----------|
| ACGIH | ACGIH TWA (ppm) | 0.5 ppm |
| ACGIH | ACGIH STEL (ppm) | 2.5 ppm |
| ACGIH | Remark (ACGIH) | Leukemia |

Ethylbenzene (100-41-4)

| | | |
|-------|-------------------------------------|-----------------------------------|
| ACGIH | ACGIH TWA (ppm) | 20 ppm |
| ACGIH | Remark (ACGIH) | URT irr; kidney dam (nephropathy) |
| OSHA | OSHA PEL (TWA) (mg/m ³) | 435 mg/m ³ |
| OSHA | OSHA PEL (TWA) (ppm) | 100 ppm |

PERSONAL PROTECTIVE EQUIPMENT:

Use appropriate personal protective equipment when risk assessment indicates this is necessary.



Eye/Face Protection: Safety glasses.

Skin Protection: Gloves. Protective clothing.

Respiratory Protection: Insufficient ventilation: Wear respiratory protection.

9. Physical & Chemical Properties

| | | | |
|---|--------------------|--|--------------------|
| Appearance: | Aerosol. Gray. | Flammability(solid/gas): | No data available. |
| Physical State: | Liquid. | Oxidizing Properties: | No data available. |
| Odor: | Hydrocarbon. | Explosive Limits: | No data available. |
| Odor Threshold: | No data available. | Explosive Properties: | No data available. |
| pH: | No data available. | Relative Vapor Density at 20°C: | No data available. |
| Melting/Freezing Point: | No data available. | Vapor Pressure: | ≈ 4.4 atm @ 70°F |
| Boiling Point/Range: | No data available. | Relative Density: | No data available. |
| Viscosity: | No data available. | Solubility: | Negligible. |
| Flash Point: | No data available. | Auto-Ignition Temp: | No data available. |
| Relative Evaporation Rate (butyl acetate=1): | No data available. | Decomposition Temp: | No data available. |
| Log POW: | No data available. | Log KOW: | No data available. |
| Viscosity (kinematic): | < 20 cSt | Viscosity (dynamic): | No data available. |
| VOC Content: | <85% | | |

10. Stability & Reactivity Information

REACTIVITY:

Upon combustion: CO and CO₂ are formed.

CHEMICAL STABILITY:

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to Section 10 on Reactivity.

CONDITIONS TO AVOID:

Heat. No flames. No sparks. Eliminate all sources of ignition.

INCOMPATIBLE MATERIALS:

No additional information available.

HAZARDOUS DECOMPOSITION PRODUCTS:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological Information

ACUTE TOXICITY:

Not classified.

| Components | Species | Test Results |
|--|---------|--|
| Ethylbenzene (10-41-4) | | |
| Acute | | |
| <i>Dermal</i> | | |
| LD50 | Rabbit | 15415 mg/kg Rabbit; Literature study; Other 15432 mg/kg; Rabbit; Experimental value |
| <i>Inhalation</i> | | |
| LC50 | Rat | 17.8 mg/l/4h (Rat; Literature study) 4000 ppm/4h (Rat; Literature study) |
| <i>Oral</i> | | |
| LD50 | Rat | 3500 mg/kg (Rat; Other: Experimental value) |
| ATP CLP (oral) | | 3500 mg/kg body weight |
| ATP CLP (dermal) | | 15415 mg/kg body weight |
| ATP CLP (gases) | | 4000 ppmV/4h |
| ATP CLP (vapors) | | 17.8 mg/l/4h |
| ATP CLP (dust, mist) | | 17.8 mg/l/4h |
| SKIN CORROSION/IRRITATION: Causes skin irritation. | | |
| SERIOUS EYE DAMAGE/EYE IRRITATION: Not classified. | | |
| RESPIRATORY SENSITIZATION: Not classified. | | |
| SKIN SENSITIZATION: Not classified. | | |
| GERM CELL MUTAGENICITY: May cause genetic defects. | | |
| CARCINOGENICITY: May cause cancer (Inhalation). | | |
| Crystalline Silica (14808-60-7) | | |
| IARC group | | 1-Carcinogenic to humans |
| Toluene (108-88-3) | | |
| IARC group | | 3-Not classifiable |
| Benzene (71-43-2) | | |
| IARC group | | 1-Carcinogenic to humans |
| National Toxicology Program (NTP) Status | | 2-Known Human Carcinogens |
| Ethylbenzene (100-41-4) | | |
| IARC group | | 2B – Possibility carcinogenic to humans |
| REPRODUCTIVE TOXICITY: Not classified. | | |
| SPECIFIC TARGET ORGAN TOXICITY -single exposure: May cause drowsiness or dizziness. | | |
| SPECIFIC TARGET ORGAN TOXICITY -repeated exposure: May cause damage to organs through prolonged or repeated exposure. | | |
| ASPIRATION HAZARD: May be fatal if swallowed and enter airways. Symptoms/effects after inhalation: May cause respiratory irritation. Central nervous system depression. Prolonged exposure: danger of damage to health through inhalation. Symptoms/effects after skin contact: Causes skin irritation. Symptoms/effects after eye contact: Direct contact with the eyes is likely to be irritating. Symptoms/effects after ingestion: May be fatal if swallowed and enters airways. | | |

| 12. Ecological Information | | |
|---------------------------------------|---------|---|
| ECOTOXICITY: | | |
| Components | Species | Test Results |
| Ethylbenzene (100-41-4) | | |
| Aquatic | | |
| Fish | LC50 | 4.2 mg/l (LC50; OECD 203: Fish Toxicity Test; 96 h; Salmo gairdneri; Semi-Static system; Fresh water; Experimental value) |
| PERSISTENCE AND DEGRADABILITY: | | |
| Ethylbenzene (100-41-4) | | |
| Persistence and Degradability: | | Readily biodegradable in water. Biodegradable in the soil. Low potential. |
| Biochemical oxygen demand (COD) | | 1.44 g O ₂ /g substance (20d.) |
| Chemical oxygen demand (COD) | | 2.1 g O ₂ /g substance |
| ThOD | | 3.17 O ₂ /g substance |
| BOD (% of ThOD) | | 45.4 (20 days) |
| BIOACCUMULATIVE POTENTIAL: | | |
| Ethylbenzene (100-41-4) | | |
| BCF fish 1 | | 1 (BCF; Other; 6 weeks; Oncorhynchus kisutch; Flow-through system; Literature study) |

| | |
|-------------------------------|--|
| BCF fish 2 | 15 – 79 (BCF) |
| BCF other aquatic organisms 1 | 4.68 (BCF) |
| Log POW | 3.15 (Experimental value; 3.6; Experimental value; EU Method A.8: Partition Coefficient; 20°C) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF <500). |

13. Disposal Consideration

Dispose in a safe manner in accordance with local/national regulations.

14. Transportation Information

DEPARTMENT OF TRANSPORTATION (DOT):

When transported by ground, this product may be eligible to be shipped as a Limited Quantity or Consumer Commodity ORM-D utilizing the exception found at 49 CFR 173.306. If any alteration of packaging, products or mode of transportation is further intended, different shipping names and labeling may be required.

ADR: No additional information available.

TRANSPORT BY SEA:

No additional information available.

AIR TRANSPORT:

No additional information available.

15. Regulatory Information

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372:

| | | |
|--------------|-----------------|--------|
| toluene | CAS No 108-88-3 | 45-70% |
| benzene | CAS No 71-43-2 | 0.1-1% |
| ethylbenzene | CAS No 100-41-4 | 0.1-1% |

Toluene (108-88-3):

Subject to reporting requirements of United States SARA Section 313.

CERCLA RQ 1000 lb

Benzene (71-43-2):

Subject to reporting requirements of United States SARA Section 313.

CERCLA RQ 10 lb

Ethylbenzene (100-41-4):

Subject to reporting requirements of United States SARA Section 313.

CERCLA RQ 1000 lb

WARNING: This product can expose you to toluene, which is known to the State of California to cause birth defects or other reproductive harm, crystalline silica, which is known to the State of California to cause cancer, ethylbenzene, which is known to the State of California to cause cancer and benzene, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

16. Other Information

Full text of H-Phrases:

- H225: Highly flammable liquid and vapor.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H336: May cause drowsiness or dizziness.
- H340: May cause genetic defects.
- H350: May cause cancer.
- H351: Suspected of causing cancer.
- H372: May cause damage to organs through prolonged or repeated exposure.
- H373: May cause damage to organs through prolonged or repeated exposure.

DISCLAIMER:

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