

# MATERIAL SAFETY DATA SHEET

Total Solutions  
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GENERAL INFORMATION NUMBER: (414) 354-6417  
CHEMTREC: (800) 424-9300

REVISION DATE: November 20, 2003  
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## I - Product Identification

### Graphite Lube

PRODUCT CODE: 0336

CHEMICAL FORMULATION: Solvent based dry lubricant.

NFPA HAZARD IDENTIFICATION SYSTEM: HEALTH: 1 FLAMMABILITY: 2 REACTIVITY: 0  
HAZARD RATING: 4 - Extreme; 3 - High; 2 - Moderate; 1 - Slight; 0 - Insignificant

## II - Hazardous Ingredients

Values reported as TWA unless noted.

SUBSTANCE	APPROX %	OSHA	ACGIH	EPA 40 CFR:			CAS#
		PEL	TLV	302	355	372	
Mineral Spirits	80.0-90.0	N/E	N/E	N	N	N	8052-41-3
Petroleum Oil	5.00-10.0	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	N	N	N	64742-52-5
Graphite	< 2.00	5 mg/m <sup>3</sup>	2 mg/m <sup>3</sup>	N	N	N	7782-42-5

Key: PEL: Permissible Exposure Limit TLV: Threshold Limit Value C: Ceiling level STEL: Short Term Exposure Limit  
N/A: Not Applicable N/D: Not Determined N/E: Not Established Y: Yes N: No  
302: CERCLA List of Hazardous Substances and Reportable Quantities (40 CFR 302.4).  
355: SARA TITLE III / List of Extremely Hazardous Substances for Emergency Planning and Notification (40 CFR 355).  
372: SARA TITLE III / List of Toxic Chemicals subject to Release Reporting (Community Right to Know) (40 CFR 372).

## III - Physical Data

BOILING POINT (°F): N/D

SPECIFIC GRAVITY (WATER = 1): 0.80

VAPOR PRESSURE (mm Hg): N/D

VOC CONTENT (% by weight): N/D

VAPOR DENSITY (AIR = 1): N/D

EVAPORATION RATE (WATER = 1): N/D

SOLUBILITY IN WATER: Insoluble

pH: N/A

APPEARANCE AND ODOR: Black liquid; solvent odor.

## IV - Fire and Explosion Hazard Data

FLASH POINT (°F): >100 (TEST METHOD): Closed cup

FLAMMABLE LIMITS IN AIR (VOLUME %) UPPER: N/D LOWER: N/D

EXTINGUISHING MEDIA: Foam, carbon dioxide, dry chemical.

SPECIAL FIRE FIGHTING PROCEDURES: Cool fire exposed containers with water fog. Firefighters should be equipped with full protective gear including self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD: May emit toxic fumes when heated. Vapors may travel considerable distance to a source of ignition and flash back.

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**V - Reactivity Data**

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**STABILITY:** Stable**INCOMPATIBILITY:** Strong oxidizers.**CONDITIONS TO AVOID:** Heat, sparks or open flame.**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition may produce oxides of carbon and sulfur oxide.**HAZARDOUS POLYMERIZATION:** Will not occur.**CONDITIONS TO AVOID:** None

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**VI - Health Hazard Data**

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**ROUTES OF ENTRY**    **INHALATION:** X    **EYE CONTACT:** X    **SKIN CONTACT:** X    **INGESTION:** X**INGREDIENTS THAT ARE CONSIDERED BY OSHA, NTP, IARC TO BE SUSPECTED HUMAN CARCINOGENS:** None**EFFECTS OF OVEREXPOSURE****IF IN EYES:** Moderate irritation, redness, tearing, blurred vision.**IF ON SKIN:** Irritation, with prolonged or repeated contact, dermatitis.**IF SWALLOWED:** Gastrointestinal irritation, nausea, cramps, vomiting. May be harmful or fatal if swallowed. Small amounts of the liquid aspirated into the respiratory system during ingestion, or from vomiting, may cause bronchopneumonia or pulmonary edema.**IF INHALED:** Irritation to upper respiratory tract, dizziness, weakness, headache, nausea, and unconsciousness.**EMERGENCY AND FIRST AID PROCEDURES****IF IN EYES:** Flush eyes and under eyelids with plenty of cool water for at least 15 minutes. Obtain medical attention.**IF ON SKIN:** Remove contaminated clothing and laundry before re-use. Wash with soap and water. If irritation persists, obtain medical attention.**IF SWALLOWED:** Contact physician or poison control center immediately. Do not induce vomiting unless told to do so by a physician or poison control center. Never give anything to an unconscious person.**IF INHALED:** Remove person to fresh air. Perform artificial respiration if breathing has stopped. Obtain medical attention.

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**VII - Spill or Leak Protection**

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**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** Ventilate area and remove all sources of ignition. Contain spill. Soak up spilled material with inert absorbent material and place in a properly marked closed container for proper disposal.**WASTE DISPOSAL METHOD:** Consult local environmental authorities.

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**VIII - Special Protection Information**

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**RESPIRATORY PROTECTION:** Use with adequate ventilation. If recommended Exposure Limits are exceeded wear a NIOSH approved respirator, following manufacturer's recommendations.**VENTILATION****LOCAL:** Recommended**MECHANICAL:** Not required**PROTECTIVE GLOVES:** Chemical resistant, gauntlet type.**EYE PROTECTION:** Safety glasses and/or face shield.**OTHER PROTECTIVE EQUIPMENT:** Eye wash station.**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Store in a cool, dry place away from heat and open flame. Wash thoroughly after handling. Keep container tightly closed when not in use.**OTHER PRECAUTIONS:** Keep out of reach of children. Do not cut or weld on empty container as they may contain flammable residues.

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**IX - Transportation Information (ground transportation only)**

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**DOT PROPER SHIPPING NAME:** None**DOT CLASS:** None**DOT ID NUMBER:** None**DOT PACKING GROUP:** None

The shipping information listed above applies only to non-bulk (< 119 gallons) containers of this product. This product may have more than one proper shipping name depending on packaging, product properties, & mode of shipment. If any alteration of packaging, product, or mode of transportation is further intended, different shipping names and labeling may apply.

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