



SAFETY DATA SHEET

SECTION 1: Product and Company Identification

DWAG

Product type: Fuel Additive

Application: Cleaning/Maintenance/Performance. Add to any diesel fuel. Do not ingest.

Supplier/Manufacturer: **Lubrication Specialties Inc.**
3975 Morrow Meadows Drive
Mount Gilead, OH 43338
US Phone: (419) 947-2647
Telefax: (415) 946-3554
Email: info@lubricationspecialties.com

Emergency Telephone number: Within USA and Canada: ChemTel, 24 hrs. +1 (800) 255-3924
Outside USA and Canada:* +1 (703) 741-5970
*Collect calls accepted 24/7

SECTION 2: Hazards Identification

Classification of the Substance or Mixture

GHS Classification in Accordance with 26 CFR 1940 (OSHA HCS):

Physical, Flammable Liquids, 4
Health, Skin irritation, 2
Health, Serious Eye Irritation, 2A
Health, Specific target organ toxicity - Single exposure, 3 narcotic effects
Health, Carcinogenicity, 2
Health, Aspiration hazard, 1
Environmental, Hazards to the aquatic environment - Chronic, 2

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **DANGER**

GHS Hazard Pictograms:



GHS Hazard Statements:

H227 - Combustible liquid
 H315 - Causes skin irritation
 H319 - Causes serious eye irritation
 H336 - May cause drowsiness or dizziness
 H351 - Suspected of causing cancer
 H304 - May be fatal if swallowed and enters airways
 H411 - Toxic to aquatic life with long lasting effects

GHS Precautionary Statements:

P201 - Obtain special instructions before use.
 P202 - Do not handle until all safety precautions have been read and understood.
 P280 - Wear protective gloves and eye protection.
 P264 - Wash hands thoroughly after handling.
 P210 - Keep away from flames and hot surfaces. - No smoking
 P270 - Do NOT eat, drink or smoke when using this product.
 P273 - Avoid release to the environment.
 P320 - Specific treatment: See below.
 P304+P340 - IF INHALED: remove victim to fresh air and keep comfortable for breathing.
 P301+P312 +P330 - IF SWALLOWED: Immediately call a poison center; rinse mouth.
 P331 - Do NOT induce vomiting.
 P303+361+353+364 – IF ON SKIN (or hair): Wash with plenty of soap and water Remove contaminated clothing and wash before reuse.
 P332 + P313 - If skin irritation occurs: Get medical advice.
 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do Continue rinsing.
 P337 + P313 - If eye irritation persists: Get medical advice.
 P312 - Call a poison control center if you feel unwell
 P308+313 - IF exposed or concerned: Get medical advice.
 P370 + P378 - In case of fire: Use dry chemical to extinguish.
 P233 - Store in a tightly closed container.
 P403 + P235 - Store in a well-ventilated place. Keep cool.
 P501 - Dispose of contents/container in accordance with regional/national regulations.

Hazards not Otherwise Classified or not Covered by GHS

When heated above 100 C (212 F) may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.

VAPOR MAY CAUSE FLASH FIRE

SECTION 3: Composition/Information on Ingredients

| <u>Ingredient Name</u> | <u>% (Avg)</u> | <u>CAS Number</u> |
|--|----------------|-------------------|
| Solvent naphtha, petroleum, light aromatic | 40-60% | 64742-95-6 |
| 2-Ethylhexyl nitrate | 16-18% | 27247-96-7 |
| 1,2,4-Trimethylbenzene | 6-9% | 95-63-6 |
| Solvent naphtha, petroleum, heavy aromatic | 2-4% | 64742-94-5 |
| 1, 3, 5 Trimethylbenzene | <4% | 108-67-8 |
| Trimethylbenzene | <4% | 25551-13-7 |
| Trade Secret | 2-3% | Trade Secret |
| Distillates, petroleum hydrotreated, light | 2-3% | 64742-47-8 |
| Xylene | <2.5% | 1330-20-7 |
| Long chain alkenyl heterocycle | <1% | Trade Secret |
| Amine Compound | <1% | 84605-20-9 |
| Naphthalene | <1% | 91-20-3 |
| Ethyl benzene | <1% | 100-41-4 |
| Cumene | <1% | 98-82-8 |
| n-Propyl benzene | <1% | 103-65-1 |
| 1, 2, 3 Trimethylbenzene | <1% | 526-73-8 |

ANY CONCENTRATION SHOWN AS A RANGE IS TO PROTECT CONFIDENTIALITY OR IS DUE TO BATCH VARIATION

SECTION 4: First Aid Measures

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| Eyes: | Immediately flush with gentle but large stream of water for 15 min, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists or develops. |
| Skin: | Wash affected area with soap and water. If itching or redness develops, seek medical attention. Contaminated clothing should be removed immediately and washed before reuse. Contaminated shoes should be discarded. |
| Inhalation: | Move the person to fresh air. If breathing becomes difficult, contact a physician. |
| Ingestion: | Do not induce vomiting. If large amounts were swallowed, give water to rinse mouth, give water to drink, and get medical attention if you feel unwell. |
| Most important symptoms/effects, Acute and delayed: | |
| Skin contact: | No specific data |
| Ingestion: | No specific data |
| Inhalation: | No specific data |
| Eye Contact: | No specific data |

SECTION 5: Firefighting Measures

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| Flash Point: | >150°F (>65.5°C) |
| Extinguishing Media: | Water spray, dry chemical, alcohol foam, or carbon dioxide. |
| Unsuitable extinguishing media: | Water jet. |
| Special Protective Equipment for firefighters: | Self-contained breathing apparatus and protective clothing when fighting any chemical fire. |
| Unusual Fire and Explosion Hazards: | In case of fire, containers may explode from internal pressure. Cool with water. VAPOR MAY CAUSE FLASH FIRE. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Decomposition products may include NO _x , CO, and CO ₂ . |
| Special protective equipment for fire-fighters: | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

SECTION 6: Accidental Release Measures

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| Personal Precautions: | Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep personnel removed and upwind of spill. Eliminate all ignition sources. Keep unnecessary and unprotected personnel from entering. |
| Environmental precautions: | P273: Avoid release to the environment. |

Limit leakage with earth or sand. Do not discharge into the drains/surface water/groundwater. Dispose of absorbed material in accordance with local, state and federal regulations.

**Methods for containment/
Cleaning up:**

Initial Containment: Approach release from upwind. Eliminate all sources of ignition – heat, sparks, flame, electricity, and impact. Contain spilled material with dikes or absorbents. Do not allow material to enter soil, surface water, or sewer system. Stop the source of the leak, if safe to do so.

Large Spill: Contain spilled material. Vacuum or sweep up material and place in a disposal container. Absorb residue with inert material (e.g., dry sand or earth,) then place in a chemical waste container. Do not flush to sewer. Use explosion-proof equipment during clean-up.

Small Spill: Contain spilled material. Absorb with inert material and place in disposal container. Spills are extremely slippery. Clean up immediately.

Miscellaneous: Note that combustible vapors may form an ignitable mixture with air. Vapors may travel considerable distances from spill and flash back, if ignited. Report spills to local authorities and/or the U.S. coast Guard's National Response Center at (800) 424-8802 as appropriate or required.

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| SECTION 7: Handling and Storage |
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Handling:

P261: Avoid breathing vapors or spray mists.
P262: Do not get in eyes, on skin, or on clothing
P264: Wash thoroughly after handling
P280: Wear protective gloves/eye protection
Handle with care and avoid spillage on the floor (slippage).
Do not cut, weld, drill, grind, braze, pressurize or solder container.
Keep away from sources of ignition.
Ground and bond containers when transferring material.

When heated above 100 C (212 F) may undergo a self-accelerating, exothermic reaction which causes a rapid rise in temperature and pressure. Rupture of storage vessels and fire should be anticipated in case of such temperature.

Storage:

P405+P235+P402++P403+P404: Store locked up in a cool, well-ventilated dry place. Store in a closed container.
Protect from moisture. Do not store together with acids.
Keep out of direct sunlight
Keep away from sources of ignition.

General Hygiene Practices:

Eating drinking and smoking should be prohibited in areas where this material is handled, stored and processed

**Special Packaging
Requirements:**

None

Incompatible Materials:

Oxidizing material. Avoid prolonged contact with porous materials. May burn or react violently to fluorine/oxygen mixtures.

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| SECTION 8: Exposure Controls/Personal Protection |
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Occupational exposure limits:

Under conditions which may generate mists, Observe exposure limits for Oil Mist (NOC):

ACGIH: TWA: 5 mg/m³ Respirable; STEL 10mg/m³ Respirable

OSHA: TWA: 5 mg/m³ Respirable.

NIOSH REL: TWA 10mg/m³ Respirable.

| Ingredient | CAS# | Exposure limits |
|------------------------|-------------|--|
| Light Aromatic Solvent | | |
| Naptha (Petroluem) | 64742-95-6 | OSHA TWA: 500ppm |
| 1,2,4-Trimethylbenzene | 95-63-6 | ACGIH TWA: 25ppm |
| Xylene | 1330-20-7 | OSHA TWA: 100ppm; 435 mg/m ³ |
| Naphthalene | 91-20-3 | OSHA TWA: 10 ppm, 50 mg/m ³ |
| Trade Secret | - | OSHA PEL: 100 ppm, 600 mg/m ³ |
| 1,3,5-Trimethylbenzene | 108-67-8 | ACGIH TWA: 25ppm |

Personal Protective Equipment

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| Hands: | Use impervious gloves. |
| Eyes: | Wear safety glasses with side shields. |
| Skin: | Wear protective clothing, wash hands thoroughly after handling. |
| Respiratory: | Respiratory protection is recommended if ventilation is limited. |

Appropriate Engineering

Controls: Good ventilation sufficient to control worker exposure to airborne contaminants

Environmental exposure

Controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation

Other measures: Have access to an eye wash station. Launder contaminated clothing before reuse. Use good industrial hygiene practices in handling this material.

SECTION 9: Physical and Chemical Properties

Appearance

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| Physical State: | Liquid |
| Color: | Amber |
| Odor: | Hydrocarbon-like |
| Odor threshold: | Not available |
| pH: | Not available |
| Melting point: | Not available |
| Boiling point: | Not available |
| Flash point: | >150°F (>65.5°C) |
| Evaporation rate: | Not available |
| Flammability (solid, gas): | Not available |
| Lower and upper explosive (flammable) limits: | Not available |
| Vapor pressure: | Not available |
| Vapor density: | Not available |
| Relative density: | 7.656 |
| Solubility: | Not available |

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| Partition coefficient: n-Octanol/water: | Not available |
| Auto-ignition temperature: | Not available |
| Decomposition temperature: | Not available |
| Viscosity: | Not available |
| Volatility: | Not available |
| VOC (w/w): | Not available |

SECTION 10: Stability and reactivity

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| Reactivity: | No specific test data available |
| Chemical Stability: | May be unstable at temperatures greater than 100°C (212°F). |
| Conditions to Avoid: | High temperatures above 50°C (122°F)., sources of ignition. |
| Incompatible Materials: | Oxidizing material. Avoid prolonged contact with porous materials. May burn or react violently to fluorine/oxygen mixtures. |
| Hazardous Decomposition Products: | Products of combustion: NO _x , CO _x |

SECTION 11: Toxicological Information

Likely Routes of Exposure: Dermal, eye, inhalation, ingestion

Acute Toxicity

| <u>Ingredient</u> | <u>Result</u> | <u>Species</u> | <u>Dose/ATE</u> | <u>Comments</u> |
|--|-----------------|----------------|-------------------------------|-----------------|
| 2-Ethylhexylnitrate | LD50 Dermal | Rabbit | >5000 mg/kg | |
| | LD50 Oral | Rat | >10000 mg/kg | |
| Solvent naphtha petroleum, heavy aromatic | LC50 Inhalation | Rat | >11.4 mg/L/4h | Vapor |
| | | | | |
| Amine compound | LD50 Dermal | Rat | >2000 mg/kg | |
| | | | | |
| 1,2,4-Trimethylbenzene | LD50 Inhalation | Rat | 18000 mg/m ³ /4h | Vapor |
| | LD50 Oral | Rat | 3400-6000 mg/kg | - |
| Light aromatic solvent Naphtha (petroleum) | LD50 Dermal | Rabbit | >3160 mg/kg | |
| | LD50 Oral | Rat | 3492 mg/kg | |
| Xylene | LC50 Inhalation | Rat | 5000 ppm/4h | Gas |
| | LD50 Dermal | Rabbit | >1700 mg/kg | |
| | LD50 Oral | Rat | 4300 mg/kg | |
| Trade Secret | LD50 Dermal | Rabbit | >19000 mg/kg | - |
| | LD50 Oral | Rat | 5135 mg/kg | - |
| Naphthalene | LD50 Dermal | Rat | >2500 mg/kg | - |
| | LD50 Oral | Rat | >2600 mg/kg | - |
| | LC50 Inhalation | Rat | >100ppm/8hrs | Gas |
| 1,3,5 Trimethylbenzene | LC50 Inhalation | Rat | 24000 mg/m ³ /4hrs | Vapor |
| | LD50 Oral | Rat | 5000mg/kg | |

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| Sensitization: | None known. |
| Germ Cell Mutagenicity: | None known. |
| Carcinogenicity: | Naphthalene, IARC 2B |

Reproductive toxicity: None known.

Specific target organ systemic toxicity (repeated exposure): None known.

SECTION 12: Ecological Information

Ecotoxicity

1,2,4-Trimethylbenzene

LC50 4910 ug/l Marine water Crustaceans-Elasmopus pectenircus 48 hrs
LC50 22.4 mg/l Fresh water Fish – Tilapia zillii 96hrs

1,3,5-Trimethylbenzene

LC50 12520-15050 ug/l Fresh water fish-Carassius auratus 96 hrs
Chronic NOEC 400 ug/l Fresh water Daphnia-Daphnia magna 21days

Xylene

LC50 8500 ug/l Marine water Crustaceans-Palaemonetes Pugio 48hrs
LC50 13400 ug/l Fresh water Fish-Pimephales promelas 96hr

Avoid exposing to the environment.

Toxic to aquatic organisms.

May cause long term adverse effects in the aquatic environment. Based on calculations.

This product contains components which may be persistent in the environment.

Chronic hazards to Aquatic Environment: No specific data available

Persistence and Degradability: No specific data available

Mobility in Soil: No specific data available

PBT/VPvB Assessment: No specific data available

Other Adverse Effects: No specific data available

Additional ecological information: Information given is based on data on the ingredients and the ecotoxicology of similar products.

SECTION 13: Disposal Considerations

Disposal methods: Disposal of this product should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority. Waste should not be disposed of untreated into the sewer. Empty containers may retain some product residues.

SECTION 14: Transportation Information

NA1993, Combustible liquid, n.o.s., Combustible liquid, PGIII, (Contains 2-Ethylhexylnitrate, Petroleum Naphtha), (Marine pollutant)

Not regulated by US DOT in containers less than 119 gallons.

IMDG & IATA: UN3082, Environmentally Hazardous Substance, liquid, nos, (2-Ethylhexylnitrate, Petroleum Naphtha), 9, III. Marine pollutant.

SECTION 15: Regulatory Information

US federal regulations

Use as animal feed is prohibited. This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All known components are on the U.S. EPA TSCA Inventory List.



WARNING This product can expose you to chemicals including Cumene, Naphthalene and Ethylbenzene, which are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

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| SECTION 16: Other Information |
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