

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

Prepared according to U.S. OSHA, CMA, ANSI, Canadian WHMIS, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Union REACH Regulations

SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	FuelGuard Winter Plus Detergent Lubricity
PRODUCT USE:	Diesel fuel additive
PRODUCT DESCRIPTION:	Diesel fuel additive for winter use
CAS#	Mixture
MANUFACTURER'S NAME:	D-A Lubricant Company, Inc.
ADDRESS:	801 Edwards Drive, Lebanon, IN 46052 USA
EMERGENCY PHONE:	1-800-899-9004 TOLL-FREE in USA/Canada
BUSINESS PHONE:	1-317-923-5321 (Product Information)
WEB SITE:	www.dalube.com
DATE OF PREPARATION:	6 April 2015
DATE OF LAST REVISION:	30 August 2013

SECTION 2 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: This product is an amber liquid with an aromatic hydrocarbon odor.
HEALTH HAZARDS: Prolonged or repeated exposure may cause irritation to eyes, respiratory system and skin. Repeated exposure may cause dryness of the skin. May be harmful if swallowed and enters the lungs.
FLAMMABILITY: This product is classified as a combustible liquid. Flashpoint: 42°C (107°F)
ENVIRONMENTAL EFFECTS: The Environmental effects of this product have not been investigated.

US DOT SYMBOLS



CANADA (WHMIS) SYMBOLS



EUROPEAN and (GHS) Hazard Symbols



Signal Word: **Warning!**

GHS LABELING AND CLASSIFICATION:

Classification of the substance or mixture according to 29CFR1910.1200 and Regulation (EC) No1272/2008 Annex 1

EC# 265-199-0 Annex I Index# 649-356-00-4

EC# 202-436-9 Annex I Index# 601-043-00-3

EC# 203-905-0 Annex I Index# 603-014-00-4

EC# 215-535-7 Annex I Index# 601-022-00-9

EC# 247-099-9 This substance is not listed in Annex I

EC# 202-849-4 Annex I Index# 601-023-00-4

Substances not listed either individually or in group entries must be self classified

Components Contributing to Hazard:

All Ingredients

GHS Hazard Classification(s):

Flammable Liquid Category 3

Aspiration Hazard Category 1

Acute Dermal Toxicity Category 4

Skin Irritation Category 2

Eye Irritation Category 2B

Acute Inhalation Toxicity Category 5

STOT SE Category 3

Germ Cell Mutagenicity Category 1B

Carcinogenicity Category 1B

Chronic Aquatic Toxicity Category 2

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

Hazard Statement(s):

H226: Flammable liquid and vapor
H304: May be fatal if swallowed and enters airway
H312: Harmful in contact with skin
H320: Causes eye irritation
H315: Causes skin irritation
H332: Harmful if inhaled
H335: May cause respiratory irritation
H340: May cause genetic defects
H350: May cause cancer
H411: Toxic to aquatic life with long lasting effects

EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC:

[F] Flammable, [Xn] Harmful, [Xi] Irritant, [N] Dangerous to the Environment

Risk Phrases:

R10: Flammable liquid and vapor
R20/21: Harmful by inhalation and in contact with skin
R36/37/38: Irritating to eyes, respiratory system and skin
R45: May cause cancer
R46: May cause heritable genetic damage
R51/53: Toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
R65: Harmful: May cause lung damage if swallowed

Precautionary Statement(s):

P201: Obtain instructions before use
P210: Keep away from heat/sparks/open flames/hot surfaces. – No Smoking
P261: Avoid breathing dust/fume/gas/mist/vapours/spray
P264: Wash hands thoroughly after handling
P280: Wear protective gloves/protective clothing/eye protection/face protection

Safety Phrases:

S2: Keep out of the reach of children
S24/25: Avoid contact with skin and eyes
S37/39: Wear suitable gloves and eye/face protection
S61: Avoid release to the environment
S62: If swallowed, do not induce vomiting, seek medical advice immediately and show container or label

HEALTH HAZARDS OR RISKS FROM EXPOSURE:

ACUTE:

EYE: Expected to cause mild irritation of the eye if exposed to liquid spray or mist. May cause tearing, or burning of the eyes.

SKIN: May cause mild skin irritation from prolonged or repeated skin contact. Symptoms of irritation may include redness, drying, and cracking of the skin.

INHALATION: Inhalation of vapors or mist may cause irritation.

INGESTION: Ingestion can cause mild irritation of the digestive tract or cause a laxative effect. Because of the low viscosity of this material, this material can enter the lungs directly by aspiration during swallowing or vomiting. If aspirated into lungs, this material can cause severe lung damage.

CHRONIC: Prolonged or repeated skin contact can cause mild irritation and inflammation characterized by drying, cracking, (dermatitis) or oil acne. May cause central nervous system depression.

TARGET ORGANS: ACUTE: Eye, Respiratory System, Skin CHRONIC: Skin, Central Nervous System

SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Light Aromatic Solvent Naphtha (Petroleum)	64742-95-6	265-199-0	Not Listed	40 - 60%	HAZARD CLASSIFICATION: Carc. Cat2, Muta Cat2, [Xn] Harmful RISK PHRASES: R45, R46, R65
1,2,4-Trimethylbenzene	95-63-6	202-436-9	1433	<30%	HAZARD CLASSIFICATION: [F] Flammable. [Xn] Harmful, [Xi] Irritant, [N] Dangerous to the Environment RISK PHRASES: R10, R20, R36/37/38, R51/53
2-Butoxyethanol	111-76-2	203-905-0	0059	15 – 30%	HAZARD CLASSIFICATION: [Xn] Harmful, [Xi] Irritant RISK PHRASES: R10, R20/21, R36/38
Xylene	1330-20-7	215-535-7	Not Listed	<3%	HAZARD CLASSIFICATION: [F] Flammable. [Xn] Harmful, [Xi] Irritant RISK PHRASES: R10, R20/21, R38
Trimethylbenzene	25551-13-7	247-099-9	1389	<2%	HAZARD CLASSIFICATION: [F] Flammable. [Xn] Harmful, [Xi] Irritant RISK PHRASES: R10, R22, R36/37/38

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

Ethylbenzene	100-41-4	202-849-4	0268	<0.5%	HAZARD CLASSIFICATION: [F] Flammable. [Xn] Harmful RISK PHRASES: R11, R20
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*.

SECTION 4 - FIRST-AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label, bill of lading and/or SDS to health professional with contaminated individual.

EYE CONTACT: If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contact lenses if worn. Seek medical attention if irritation persists.

SKIN CONTACT: Wash skin thoroughly after handling. Seek medical attention if irritation develops and persists. Remove contaminated clothing. Launder before re-use.

INHALATION: If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

INGESTION: If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or SDS with the victim to the health professional.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Pre-existing skin problems may be aggravated by prolonged contact.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and reduce over-exposure.

SECTION 5 - FIRE-FIGHTING MEASURES

FLASH POINT: 42°C (107°F)

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS (in air by volume, %): Lower N.E.% Upper (UEL): N.E.%
(LEL):

FIRE EXTINGUISHING MATERIALS: Use water fog, foam, dry chemical or carbon dioxide (CO₂) to extinguish flames.

Do not use straight streams of water.

UNUSUAL FIRE AND EXPLOSION HAZARDS: This product is a flammable liquid and vapors.

HAZARDS:
Explosion Sensitivity to Mechanical Impact: Not Sensitive.

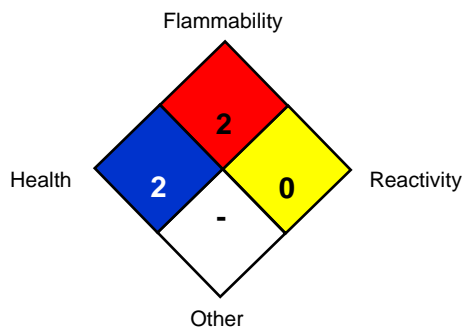
Explosion Sensitivity to Static Discharge: Sensitive

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.



SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

NFPA RATING SYSTEM



HMS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			2
FLAMMABILITY HAZARD (RED)			2
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

SECTION 6 - ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Personnel should be trained for spill response operations.

SPILLS: Contain spill if safe to do so. Product may create a slip hazard if not cleaned up. Prevent entry into drains, sewers, and other waterways. Soak up with an absorbent material and place in an appropriate container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

If spill of any amount is made into or upon navigable waters, the contiguous zone or adjoining shorelines, notify the National Response Center (phone number 800-424-8802).

Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

SECTION 7 - HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

STORAGE AND HANDLING PRACTICES: Containers of this product must be properly labeled. Store containers in a cool, dry location. Keep container tightly closed when not in use. Protect from physical damage.

Other precautions: For professional industrial use only. Good personal hygiene is important. Empty containers retain residue which can be dangerous.

SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

Chemical Name	CAS#	ACGIH TWA	OSHA TWA	SWA
Light Aromatic Solvent Naphtha (Petroleum)	64742-95-6	500 ppm	500 ppm	500 ppm
1,2,4-Trimethylbenzene	95-63-6	25 ppm	25 ppm	25 ppm
2-Butoxyethanol	111-76-2	25 ppm	25 ppm	25 ppm
Xylene	1330-20-7	100 ppm	100 ppm	100 ppm
Trimethylbenzene	25551-13-7	25 ppm	25 ppm	25 ppm
Ethylbenzene	100-41-4	125 ppm	125 ppm	125 ppm

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided above. Use local exhaust ventilation to control airborne vapor. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Not normally required. Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Safety glasses or chemical goggles as appropriate to prevent eye contact. If necessary, refer to U.S. OSHA 29 CFR 1910.133 or appropriate Canadian Standards.

HAND PROTECTION: Use chemical resistant gloves to prevent skin contact. If necessary, refer to U.S. OSHA 29 CFR 1910.138 or appropriate Standards of Canada.

BODY PROTECTION: Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
APPEARANCE & ODOR:	Amber liquid with a aromatic hydrocarbon odor.
ODOR THRESHOLD (PPM):	Mild
VAPOR PRESSURE (mmHg):	No Data Available
VAPOR DENSITY (AIR=1):	No Data Available
EVAPORATION RATE (nBuAc = 1):	No Data Available
BOILING POINT (C°):	No Data Available
MELTING POINT (C°):	No Data Available
pH:	No Data Available
SPECIFIC GRAVITY:	0.8905 @ 60°F
VISCOSITY:	No Data Available
SOLUBILITY IN WATER (%):	Nil

SECTION 10 - STABILITY and REACTIVITY

STABILITY: Product is stable

DECOMPOSITION PRODUCTS: Material does not decompose under normal storage conditions. When heated to decomposition this product produces carbon dioxide, carbon monoxide and organic compounds.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Strong oxidizers, acids, halogens and hydrogen peroxide.

HAZARDOUS POLYMERIZATION: Will not occur.

CONDITIONS TO AVOID: Contact with incompatible materials. Excessive heat and high energy sources of ignition.

SECTION 11 - TOXICOLOGICAL INFORMATION

TOXICITY DATA: Toxicity data is not available for mixture:

Solvent Petroleum naphtha CAS# 64742-95-6

Acute Oral Toxicity LD50 10 ml/kg

Acute Dermal Toxicity LD50 4 ml/kg

SUSPECTED CANCER AGENT: This product does contain an ingredient(s) that are found on one or more of the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is considered to be, or suspected to be a cancer-causing agent by these agencies.

Cumene CAS# 98-82-8

IRRITANCY OF PRODUCT: Contact with this product can be irritating to exposed skin and eyes.

REPRODUCTIVE TOXICITY INFORMATION: No information concerning the effects of this product and its components on the human reproductive system.

ADDITIONAL INFORMATION: None available at this time

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

SECTION 12 - ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: No data available at present time.

EFFECT OF MATERIAL ON PLANTS or ANIMALS: No data available at present time.

EFFECT OF CHEMICAL ON AQUATIC LIFE: No evidence is currently available on this product's effects on aquatic life. This product contains ingredients that may cause adverse long term effects in the aquatic environment.

SECTION 13 - DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste classification and disposal methods in compliance with applicable regulations. Do not dispose into the environment, in drains, or in water courses. Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.

SECTION 14 - TRANSPORTATION INFORMATION

US DOT; IATA; IMO; ADR:

THIS PRODUCT IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.

NOTE: This material is not regulated when shipping ground or rail with the U.S. in quantities less than 119 gallons

PROPER SHIPPING NAME: Flammable Liquid, n.o.s (Contains Petroleum Naphtha, 1,2,4-Trimethylbenzene).

HAZARD CLASS NUMBER and DESCRIPTION: : Class 3 Flammable Liquid

UN IDENTIFICATION NUMBER: UN1993

PACKING GROUP: PGIII

DOT LABEL(S) REQUIRED: Flammable Liquid

NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004): 128

MARINE POLLUTANT: None of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:

This product is classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):

This product is classified as Dangerous Goods, by rules of IATA:

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:

This product is classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

SECTION 15 - REGULATORY INFORMATION

UNITED STATES REGULATIONS

SARA REPORTING REQUIREMENTS: This product components are subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows:

SARA 313 Reporting; 1,2,4-Trimethylbenzene CAS# 95-63-6 <30%, Xylene CAS# 1330-20-7 <3%

TSCA: All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

SARA 311/312:

Acute Health: Yes Chronic Health: Yes Fire: Yes Reactivity: No

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): Xylene CAS# 1330-20-7 1000 Lb RQ

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): This product does contain ingredient(s) which are on the California Proposition 65 lists.

WARNING! This product contains ingredients that are known to the State of California to cause cancer or reproductive harm.

SAFETY DATA SHEET

FuelGuard Winter Plus Detergent Lubricity

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: This product is categorized as Class B Division 3 Combustible liquid and Class D Division 2 materials causing other toxic effects, as per the Controlled Product Regulations

EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION:

Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.

AUSTRALIAN INFORMATION FOR PRODUCT:

AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS: All components of this product are listed or exempt on the AICS.

STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS: Not applicable.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances (AICS):	Listed
Korean Existing Chemicals List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed
Swiss Giftlist List of Toxic Substances:	Listed
U.S. TSCA:	Listed

SECTION 16 - OTHER INFORMATION

Disclaimer: The information in this document is believed to be correct as of the date issued. **HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.** This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.