

FORTÉ

MATERIAL SAFETY DATA SHEET FOR FORTE PREMIUM ULS DIESEL BOOSTER # F009

W.H.M.I.S. – Class D, Division 2A: Very Toxic
Class D, Division 2B: Toxic
Class B, Division 3, Combustible Liquid

CONTROLLED

SECTION 1: PRODUCT IDENTIFICATION AND USE

PRODUCT USE: Diesel Fuel Improver PRODUCT IDENTIFICATION NO: MIXTURE

SUPPLIER: FORTE PERFORMANCE SYSTEMS
435 FOUR VALLEY DRIVE #8
VAUGHAN, ONTARIO
L4K 5X5 1-905-660-6440

SECTION 2: HAZARDOUS INGREDIENTS

% wt/wt	HAZARDOUS INGREDIENTS	UN/CAS #	LC 50	LD 50-ORAL (RATS)	LD 50-DERMAL (RABBITS)
> 80.0	**Stoddard Solvent	8052-41-3	>5000 g/m ³	> 5 g/kg	> 4.0 ml/kg
< 2.5	**1,2,4, Trimethylbenzene	95-63-6	Not Available	Not Available	Not Available
< 5.7	**Petroleum Naphtha	64742-94-5	Not Available	> 5000 mg/kg	> 2000 mg/kg
< 0.45	**Trimethylbenzene	25551-13-7	Not Available	Not Available	Not Available
< 2.5	**2-Ethylhexylnitrate	27247-96-7	2.5-50 mg/l(4hrs)	> 5000 mg/kg	> 2000 mg/kg
< 1.0	**Aromatic glyceride derivative	Not Available	Not Available	Not Available	Not Available
< 0.13	**Methyl Salicylate	119-36-8	Not Available	Not Available	Not Available
< 0.20	**1H-Benzotriazole-1-methanamine,N,N-bis(2-ethylhexyl)-ar-methyl	Not Available	Not Available	Not Available	Not Available
< 0.48	**Naphthalene	91-2-3	Not Available	Not Available	Not Available

ONLY THE INGREDIENTS PRECEDED BY ** ARE CONTROLLED UNDER W.H.M.I.S.

SECTION 3: PHYSICAL DATA

VAPOUR PRESSURE (mmHg): Not Determined COEFF. WATER/OIL DIST.: Not Determined WATER SOLUBILITY: Not Determined
VISCOSITY (cSt): Not Determined BOILING POINT (DEG C): Not Determined ODOUR THRESHOLD (ppm): Not Determined
VOLATILITY (%): Not Determined EVAPORATION RATE: Not Determined FREEZING POINT (DEG C): Not Determined
PHYSICAL STATE: Liquid pH: Not Determined VAPOUR DENSITY: Not Determined
SPECIFIC GRAVITY (kg/l): 0.8014 ODOUR/APPEARANCE: Amber colour, with pungent odour

SECTION 4: FIRE AND EXPLOSION DATA

FLAMMABILITY? YES CONDITIONS? Exposure to open flame, ignition sources and temperatures above the flash point.
NO

MEANS OF EXTINCTION: Carbon Dioxide Foam Fog (Spray)
 Dry Chemical Water Stream Other (See Special Procedures)

FLASH POINT (Method): > 52 (TCC) AUTO IGNITION: Not Determined FLAMMABLE LIMITS (% vol): Lower: 1.0
Upper: 7.0

COMBUSTION PRODUCTS: Oxides of carbon, nitrogen and smoke. Toxic fumes, gases or vapours may evolve on burning. The alkyl nitrate contained in this product may undergo a self-accelerating exothermic reaction if heated above 150 C.

SENSITIVITY TO IMPACT: None SENSITIVITY TO STATIC DISCHARGE: Not Determined

SPECIAL PROCEDURES: Use waterspray to cool fire exposed containers and as a protective screen. Vapours may be heavier than air and may travel along the ground to a distant ignition source and flashback.

SECTION 5: REACTIVITY DATA

CHEMICAL STABILITY? YES CONDITIONS? Material could become unstable at elevated temperatures and pressures.
NO

INCOMPATIBILITY WITH OTHER PRODUCTS? YES WHICH ONES? Strong oxidizing agents, strong bases, strong acids, amines, nitrites, halogens,
NO and halogenated compounds.

REACTIVITY, UNDER WHAT CONDITIONS? Heating material under confinement may cause an explosion

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of carbon and nitrogen, aldehydes and other products of incomplete combustion.

SECTION 6: TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN [X] EYES [X] INHALATION [X] INGESTION [X]

EFFECTS OF ACUTE EXPOSURE TO PRODUCT: Harmful if inhaled. Causes eye and skin irritation. May cause chronic health effects. Harmful if absorbed through the skin. Ingested: Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea and abdominal pain. Skin: Skin irritant. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying and cracking of the skin. Overexposure to organic nitrates by skin contact may cause headache, nausea and decreased blood pressure. Eye: Moderate to strong eye irritation. Inhalation: High concentration may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions. If material is misted or if vapours are generated from heating, exposure may cause irritation of mucous membranes and the upper respiratory tract.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Repeated overexposure to petroleum naphtha can cause nervous system damage. A number of human studies, showed no clinical evidence of kidney effects at normal occupational levels.

ACUTE LETHALITY:		EXPOSURE LIMITS:	25 ppm (Trimethylbenzene)
LD 50 – ORAL:	> 5000 mg/kg		100 ppm (vapour)
LD 50 – DERMAL:	> 2000 mg/kg		1 ppm (2-Ethylhexylnitrate)
LC 50 – INHALATION:	> 5g/m ³ (based on Stoddard solvent)	IRRITANCY OF PRODUCT:	Moderate
SENSITIZATION:	May cause skin sensitization	REPRODUCTIVE TOXICITY:	May cause reproductive effects (one component <1.0%)
TERATOGENICITY:	No evidence of adverse effects	MUTAGENICITY:	No data available
CARCINOGENICITY:	Naphthalene has been classed as a possible human carcinogen on the basis of experimental animals.	SYNERGISTIC PRODUCTS:	None known

ADDITIONAL INFORMATION:

This is an untested mixture. The toxicological information supplied is based on the most hazardous ingredient.

SECTION 7: PREVENTATIVE MEASURES**PERSONAL PROTECTIVE EQUIPMENT:**

Wear goggles or face shield and nitrile/viton gloves when handling. Exposure to high concentrations of mist or vapour requires the wearing of suitable respiratory equipment.

ENGINEERING CONTROLS: Use with adequate ventilation and keep airborne concentrations within the recommended limits.

LEAK AND SPILL PROCEDURES:

Prevent material from entering drains, sewers or waterways. Absorb residue with an inert absorbent. Shovel into waste container and dispose. Should not be released into the environment.

WASTE DISPOSAL: Use standard waste disposal procedures in accordance with local, provincial and federal regulations.

HANDLING PROCEDURES AND EQUIPMENT:

Do not store or use near ignition sources or strong oxidizing agents. Containers should be grounded when transferring liquid contents. Don't cut, drill, or weld empty containers.

STORAGE REQUIREMENTS:

Keep container closed when not in use. Store in a cool, well ventilated area. Keep away from heat, sparks and flames. Product may be a static accumulator.

SPECIAL SHIPPING INFORMATION:

Petroleum Distillates N.O.S., Class 3, UN1268, Packing Group III (Not regulated in containers less than 100 gallons)

Environmentally Hazardous Substance, Liquid, N.O.S. UN3082, Class 9, Packing Group III, Marine Pollutant (Bulk material)(due to 1H-Benzotriazole)

SECTION 8: FIRST AID MEASURES

EYE CONTACT: Flush with water for 15 minutes. Seek medical attention.

SKIN CONTACT: Wash with plenty of soap and water. Remove clothing that has been in contact with this product and wash thoroughly before reuse. Seek medical attention.

INHALATION: Remove victim to fresh air. Provide CPR and Oxygen, if necessary.

ASPIRATION/INGESTION: Do not induce vomiting, seek medical attention.

NOTES: Skin contact may aggravate existing dermatitis. Aspiration may cause pulmonary injury.

SECTION 9: PREPARATION DATE OF MSDS

PREPARED BY: Fred Kalk

REVISION DATE: February 2012

SUPERSEDES: January 2009

Warranty: All technical information, recommendations and statements contained herein are based on tests we believe to be reliable. It is offered in good faith but without guarantee. We make no warranty expressed or implied as to the suitability of our product for any particular use in operations not under our direct control. Liability is limited to the net purchase price of the product. This warranty is exclusive of all other warranties, expressed or implied and no statement or recommendation not contained herein shall apply unless covered by agreement signed by an authorized officer of Forte Performance Systems.

FORTE PERFORMANCE SYSTEMS
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