



Safety Data Sheet

Page 1 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

1 PRODUCT AND COMPANY INFORMATION

Product Name: Diesel Force Diesel Injector Cleaner
Revision Date: 09/26/2016
SDS Number: DF670
DF690
Common Name: Solvated petroleum distillates
CAS Number: Blend
Product Code: DF670
DF690
Synonyms: Injector systems cleaner

Company Identification:

Supplier:
LYDEN OIL COMPANY
30682 Tracy Road
Walbridge, OH 43465
www.lydenoil.com

For Product Information: 1-800-245-9336
For Emergencies: 1-800-424-9300 (CHEMTREC)

2 HAZARDS IDENTIFICATION



Signal Word:

DANGER



Safety Data Sheet

Page 2 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

Hazard Classes/Categories:

Flammable liquid, Category 3.
Acute toxicity, Inhalation category 4.
Skin irritant, Category 2.
Serious eye irritation, Category 2A.
Germ cell mutagen, Category 1B.
Carcinogen, Category 1B.
Aspiration hazard, Category 1.
Hazardous to the aquatic environment, Category chronic 3.

Hazard Statement(s):

H226: Flammable liquid and vapor.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H340: May cause genetic defects.
H350: May cause cancer.
H304: May be fatal if swallowed and enters airways.
H412: Harmful to aquatic life with long-lasting effects.

Precaution Statement(s):

P101: If medical advice is needed, have product container or label at hand.
P102: Keep out of reach of children.
P103: Read label before use.
P201: Obtain special instructions before use.
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241: Use explosion-proof electrical/ventilating/light/equipment.
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P233: Keep container tightly closed.
P242: Use only non-sparking tools.
P301+310: IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.



Safety Data Sheet

Page 3 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P363: Wash contaminated clothing before reuse.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405: Store locked up.
P403+235: Store in a well ventilated place. Keep cool.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazard Statement(s):

-NFPA Ratings:
Health = 1
Fire = 2
Reactivity = 3

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Distillates (petroleum), hydrotreated light	64742-47-8	25-50
2-ethylhexyl nitrate	27247-96-7	10-25
2-butoxyethanol	111-76-2	10-20
Solvent naphtha (petroleum), heavy arom.	64742-94-5	2.5-10
Solvent naphtha (petroleum), light arom.	64742-95-6	2.5-10
Xylene	1330-20-7	1-2.5
1,2,4-trimethylbenzene	95-63-6	1-2.5
Benzene, ethylenated, residues, distn. Lights	178535-25-6	1-2.5
Ethylbenzene	100-41-4	0.1-1

**Any concentration shown as a range is to protect confidentiality or is due to batch variation.*



Safety Data Sheet

Page 4 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

4 FIRST AID MEASURES

Description of First Aid Measures:

Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the victim has difficulty breathing or is unresponsive, give oxygen with rescue breathing or CPR as required and transport to the nearest medical facility.

Skin Contact:

Flush skin with water, wash with soap and water. Remove contaminated clothing. Do not reuse clothing until cleaned. Get medical attention if skin irritation occurs or if otherwise needed.

Eye Contact:

Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical attention.

Ingestion:

DO NOT induce vomiting. Obtain medical attention.

Symptoms and Effects, both acute and delayed:

-Most important symptoms and effects, both acute and delayed:

Headache

Dizziness

May cause nose, throat, and lung irritation.

May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin.

Repeated exposure to this material can result in absorption through skin causing significant health hazard.

Harmful if swallowed. May be fatal if swallowed and enters airways. Swallowing a small quantity of this material will result in serious health hazard.

Irritating to skin and eyes. Could cause dermatitis.

Will cause nausea and vomiting.



Safety Data Sheet

Page 5 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

-Indication of any immediate medical attention and special treatment needed:
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

Recommended Actions:

Treat symptomatically. Call a doctor or poison control center for guidance.

5 FIRE FIGHTING MEASURES

Recommended Fire-Extinguishing Equipment:

Use dry powder, foam, or carbon dioxide fire extinguishers. Do not use water.

Possible Hazards During a Fire:

Hazardous combustion products may include: A complex mixture of airborne solid and liquid particulates and gases (smoke). Carbon monoxide. Unidentified organic and inorganic compounds.

Recommendations to Firefighters:

Proper protective equipment including breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions:

Avoid breathing vapors.
Personal protective equipment must be worn.
Avoid contact with skin, eyes or clothing.
Remove persons from danger area.



Safety Data Sheet

Page 6 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

Emergency Procedures:

Contain spilled material, collect in suitable and properly labeled containers.

Environmental Precautions:

Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.

Cleanup Procedures:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Ensure adequate ventilation.

7 HANDLING AND STORAGE

Handling Precautions:

Keep receptacles tightly sealed.
Open and handle receptacle with care.
Use only in well ventilated areas.
Avoid contact with the eyes and skin.
Avoid contact with clothing.
Avoid splashes or spray in enclosed areas.

Storage Requirements:

Keep ignition sources away - Do not smoke.
Protect against electrostatic charges. Protect from heat.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-111-76-2; 2-butoxyethanol (10-20%):
PEL TWA: 240 mg/m³, 50 ppm
Skin
REL TWA: 24 mg/m³, 5 ppm
Skin
TLV TWA: 97 mg/m³, 20 ppm
BEI



Safety Data Sheet

Page 7 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

-1330-20-7; xylene (1-2.5%):
PEL TWA: 435 mg/m³, 100 ppm
REL STEL: 655 mg/m³, 150 ppm
TWA: 435 mg/m³, 100 ppm
TLV STEL: 651 mg/m³, 150 ppm
TWA: 434 mg/m³, 100 ppm
BEI

-95-63-6; 1,2,4-trimethylbenzene (1-<2.5%):
REL TWA: 125 mg/m³, 25 ppm
TLV TWA: 123 mg/m³, 25 ppm

- Ingredients with biological limit values:

-111-76-2; 2-butoxyethanol (10-<20%):
BEI 200 mg/g creatinine
Medium: urine
Time: end of shift
Parameter: Butoxyacetic acid with hydrolysis

-1330-20-7; xylene (1-2.5%):
BEI 1.5 g/g creatinine
Medium: urine
Time: end of shift
Parameter: Methylhippuric acids

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).

Personal Protective Equipment:

-General protective and hygienic measures:
Wash hands before breaks and at the end of work.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.

Avoid contact with the eyes and skin. Wear gloves and goggles.

-Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



Safety Data Sheet

Page 8 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Sweet
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	171° C / 340° F
Boiling Range:	Data not available
Flash Point:	43° C / 109° F
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	2 mmHg at 20° C
Vapor Density:	Data not available
Relative Density:	0.8 g/cm ³ (6.676 lbs/gal)
Solubilities:	Insoluble in water
Partition Coefficient:	Data not available
Auto-Ignition Temperature:	Data not available
Decomposition Temperature:	Data not available
Viscosity:	Data not available

10 STABILITY AND REACTIVITY

Stability:

Stable under normal conditions.

Reactivity:

Not reactive under normal conditions.

Conditions to Avoid:

Extreme temperature, sparks, open flame, and direct sunlight.

Hazardous Reactions:

Flammable liquid and vapour. May form flammable/explosive vapour-air mixture.



Safety Data Sheet

Page 9 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

Incompatible Materials:

Strong oxidizers.

Decomposition Products:

Oxides of carbon.

11	TOXICOLOGICAL INFORMATION
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Routes of Exposure:

Inhalation, skin and eye contact are the primary routes of exposure although exposure may occur following accidental ingestion.

Exposure Effects:

- On the skin: Irritant to skin and mucous membranes.
- On the eye: Irritating effect.
- Inhalation:
Do not inhale , can cause respiratory system irritation.
Asphyxiation

Measures of Toxicity:

Diesel Fuel Injector Cleaner:
Oral LD50 2234 mg/kg
Dermal LD50 1800 mg/kg
Inhalative LC50/4 h 11.1 mg/l

2 7247-96-7 2-ethylhexyl nitrate:
Oral LD50 500 mg/kg (ATE)
Dermal LD50 1100 mg/kg (ATE)
Inhalative LC50/4 h 11 mg/l (ATE)

111-76-2 2-butoxyethanol:
Oral LD50 470 mg/kg (rat)
Dermal LD50 400 mg/kg (rab)
Inhalative LC50/4 h 2.2 mg/l (rat)



Safety Data Sheet

Page 10 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

64742-95-6 Solvent naphtha (petroleum), light arom.:

Oral LD50 >6800 mg/kg (rat)

Dermal LD50 >3400 mg/kg (rab)

Inhalative LC50/4 h >10.2 mg/l (rat)

1330-20-7 xylene:

Oral LD50 4300 mg/kg (rat)

Dermal LD50 2000 mg/kg (rabbit)

Inhalative LC50/4 h 6700 mg/l (rat)

95-63-6 1,2,4-trimethylbenzene:

Oral LD50 5000 mg/kg (rat)

Inhalative LC50/4 h 18 mg/l (rat)

178535-25-6 Benzene, ethylenated, residues, distn.

Lights:

Oral LD50 >2000 mg/kg (rat)

100-41-4 ethylbenzene:

Oral LD50 3500 mg/kg (rat)

Dermal LD50 17800 mg/kg (rabbit)

Inhalative LC50/4 h 17.8 mg/l (rat)

Carcinogenic/Mutagenic Precautions:

2-butoxyethanol: Carcinogenic category 3 (IARC).

Xylene: Carcinogenic category 3 (IARC).

Ethylbenzene: Carcinogenic category 2B (IARC).

Naphthalene: Carcinogenic category 2B (IARC).

Cumene: Carcinogenic category 2B (IARC).

12

ECOLOGICAL INFORMATION

Ecological Precautions:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.



Safety Data Sheet

Page 11 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

Ecological Effects:

-111-76-2 2-butoxyethanol:
EC50 (48 h) >1000 mg/L (daphnia)
LC50 (96 h) (static) 1490 mg/l (Lepomis macrochirus)

13 DISPOSAL CONSIDERATIONS

Disposal Methods:

Dispose of waste material in accordance with all local, state, and federal requirements.

Disposal Containers:

Use properly approved container for disposal.

Special Precautions:

Do not dispose of with household garbage.
Do not flush to surface waters or drains.

14 TRANSPORT INFORMATION

UN Number: UN1993
UN Shipping Name: Flammable liquids, toxic, n.o.s. (Distillates (petroleum), hydrotreated light, 2-ethylhexyl nitrate)
Transport Hazard Class: 3
Packing Group: III

Environmental Hazards:

Not a marine pollutant

Bulk Transport Guidance:

Data not available

Special Precautions:

DOT quantity limitations of 60L on passenger aircraft or rail, and 220L on cargo aircraft.



Safety Data Sheet

Page 12 of 12

Diesel Force Diesel Injector Cleaner

SDS Number: DF670, DF690

15 REGULATORY INFORMATION

This material and all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substances Control Act.

California Proposition 65 WARNING: This product contains measurable amounts of a chemical known to the State of California to cause cancer.

16 OTHER INFORMATION

Last Revision Date: 09/26/2016

The information contained in this Safety Data Sheet (SDS) relates only to the specific material designated. The supplier assumes no legal responsibility of the use or reliance upon this data. This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of the supplier.