



Safety Data Sheet

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Diesel Force Diesel EGR & Induction System Cleaner

SDS Number: DF620
DF630

1 PRODUCT AND COMPANY INFORMATION

Product Name: Diesel Force Diesel EGR & Induction System Cleaner
Revision Date: 09/26/2016
SDS Number: DF620
DF630
Common Name: Diesel EGR and Induction System Cleaner
CAS Number: Blend
Product Code: DF620
DF630
Synonyms: Water Based System 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



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Hazard Classes/Categories:

Skin corrosive, Category 1B.
Serious eye damage, Category 1.
Corrosive to metals, Category 1.
Carcinogen, Category 2.

Hazard Statement(s):

H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H290: May be corrosive to metals.
H351: Suspected of causing cancer.

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.
P264: Wash ... thoroughly after handling.
P261: Avoid breathing dust/fumes/gas/mist/vapors/spray.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P337+313: If eye irritation persists get medical advice/attention.
P303+361+353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P304+340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+311: IF exposed or concerned: Call a POISON CENTER/ doctor.
P405: Store locked up.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.



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Other Hazard Statement(s):

-NFPA Ratings:
Health = 3
Fire = 0
Reactivity = 0

Caution: CAUSTIC SOLUTION, Avoid contact with eyes/skin.

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Sodium Hydroxide	1310-73-2	1-2
Nitrilotriacetic acid trisodium salt monohydrate	18662-53-8	0.1-1

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

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.



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Ingestion:

Rinse mouth with water. Drink copious amounts of water and DO NOT induce vomiting. Obtain medical attention.

Symptoms and Effects, both acute and delayed:

-Most important symptoms and effects, both acute and delayed:
Corrosive to skin and eyes. Will cause nausea and vomiting.
Irritating to mouth, throat and stomach.
-Indication of any immediate medical attention and special treatment needed:
No further relevant information available.

Recommended Actions:

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

5	FIRE FIGHTING MEASURES
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Recommended Fire-Extinguishing Equipment:

Use dry powder, foam, or carbon dioxide fire extinguishers. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.

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.



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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.

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:

Use good personal hygiene practices
Avoid contact with the eyes and skin.
Avoid contact with clothing.
Use only in well ventilated areas.
Avoid splashes or spray in enclosed areas.

Storage Requirements:

Keep container tightly sealed. Store only in original container.
Keep away from sources of ignition.



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-1310-73-2 Sodium Hydroxide (1-2%):

TLV - CEV: 2 mg/m³

PEL – TWA: 2 mg/m³

Engineering Controls:

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94). Eyewash station and safety shower should be available.

Personal Protective Equipment:

-General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Wear gloves and safety glasses/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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Mild
Odor Threshold:	Data not available
pH:	12.5-13.8
Melting Point:	Data not available
Boiling Point:	Data not available
Boiling Range:	Data not available
Flash Point:	Data not available
Evaporation Rate:	Data not available



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Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	Data not available
Vapor Density:	Data not available
Relative Density:	1.02 g/cm ³ (8.512 lbs/gal)
Solubilities:	Fully miscible with 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:

No further relevant information available.

Hazardous Reactions:

No known hazardous reactions.

Incompatible Materials:

Acids

Decomposition Products:

Hazardous decomposition products are not expected to form.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure:

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



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Exposure Effects:

Corrosive to skin and mucous membranes.
Corrosive to eyes.

Measures of Toxicity:

EGR and Induction System Cleaner:

Oral LD50: 29851 mg/kg (ATE)

1310-73-2 Sodium Hydroxide:

Oral LD50: 2000 mg/kg (rat)

18662-53-8 Nitrilotriacetic acid trisodium salt monohydrate:

Oral LD50: 100 mg/kg (ATE)

Carcinogenic/Mutagenic Precautions:

Nitrilotriacetic acid trisodium salt monohydrate:
Carcinogenic category 2B (IARC).

12 ECOLOGICAL INFORMATION

Ecological Precautions:

Avoid exposing to the environment.

Ecological Effects:

1310-73-2 Sodium Hydroxide:

LC50 (48 hours): 125 mg/L (fish)

13 DISPOSAL CONSIDERATIONS

Disposal Methods:

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



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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: UN3266
UN Shipping Name: Corrosive liquid, basic, inorganic, n.o.s. (Sodium hydroxide)
Transport Hazard Class: 8
Packing Group: II

Environmental Hazards:

Not a marine pollutant

Bulk Transport Guidance:

Data not available

Special Precautions:

Placard: CORROSIVE (non-limited quantities with gross weight over 1,001 pounds) DOT quantity limitations of 5L on passenger aircraft or rail, and 60L on cargo aircraft.

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. (Nitrilotriacetic acid trisodium salt monohydrate)



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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.



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Diesel Force Oil System Cleaner Concentrate

SDS Number: DF430
DF420

1 PRODUCT AND COMPANY INFORMATION

Product Name: Diesel Force Oil System Cleaner Concentrate
Revision Date: 09/26/2016
SDS Number: DF430
DF420
Common Name: N/A
CAS Number: Blend
Product Code: DF430
DF420
Synonyms: N/A

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:

WARNING



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Diesel Force Oil System Cleaner Concentrate

SDS Number: DF430
DF420

Hazard Classes/Categories:

Skin sensitization, Category 1.

Hazard Statement(s):

H317: May cause an allergic skin reaction.

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.
P261: Avoid breathing fumes/gas/mist/vapors/spray.
P272: Contaminated work clothing should not be allowed out of the workplace.
P280: Wear protective gloves/protective clothing/eye protection.
P302+352: IF ON SKIN: Wash with plenty of water.
P333+313: If skin irritation or a rash occurs: Get medical advice/attention.
P362+364: Take off contaminated clothing and wash it before reuse.
P501: Dispose of contents/container in accordance with local/regional/national/international regulation.

Other Hazard Statement(s):

-NFPA Ratings:
Health = 0
Fire = 1
Reactivity = 0

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Hydrotreated heavy paraffinic petroleum	64742-54-7	>99
Diethylenetriamine	111-40-0	<1

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



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Diesel Force Oil System Cleaner Concentrate

SDS Number: DF430
DF420

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. Get medical attention if symptoms occur.

Skin Contact:

Wash with soap and water.
Remove contaminated clothing and wash before reuse.
Get medical attention if needed.

Eye Contact:

Flush with water for several minutes.
If effects occur, consult a physician.

Ingestion:

Rinse mouth with water.
If symptoms develop, obtain medical attention.

Symptoms and Effects, both acute and delayed:

No further relevant data available.

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. Water may be ineffective in fighting an oil fire unless used by experienced fire fighters.



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Diesel Force Oil System Cleaner Concentrate

SDS Number: DF430
DF420

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 eye contact. Avoid repeated or prolonged skin contact.
Personal protective equipment must be worn.
Avoid contact with skin, eyes or clothing.

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:

Wear personal protective equipment. Avoid contact with eyes.



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SDS Number: DF430
DF420

Storage Requirements:

Keep containers tightly closed in a dry, cool and well-ventilated place.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

-64742-54-7 Distillates (petroleum), hydrotreated heavy parffinic:

ACGIH TWA – 5mg/m³ (oil mist)
ACGIH STEL - 10mg/m³ (oil mist)
OSHA TWA – 5mg/m³ (oil mist)

Engineering Controls:

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

Personal Protective Equipment:

Wash hands before breaks and at the end of work.
Use safety glasses and gloves.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Amber
Physical State:	Liquid
Odor:	Data not available
Odor Threshold:	Data not available
pH:	Data not available
Melting Point:	Data not available
Boiling Point:	Data not available
Boiling Range:	Data not available
Flash Point:	Data not available
Evaporation Rate:	Data not available
Flammability:	Data not available
Flammability Limits:	Data not available
Vapor Pressure:	Data not available
Vapor Density:	Data not available
Relative Density:	6.89 pounds per gallon at 60° F
Solubilities:	Insoluble in water
Partition Coefficient:	Data not available



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SDS Number: DF430
DF420

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:

No known hazardous reactions.

Incompatible Materials:

No further relevant information available.

Decomposition Products:

Hazardous decomposition products are not expected to form.

11 TOXICOLOGICAL INFORMATION

Routes of Exposure:

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

Exposure Effects:

Repeated skin contact may cause dermatitis or an oil acne.



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SDS Number: DF430
DF420

Measures of Toxicity:

No test data available.

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

12 ECOLOGICAL INFORMATION

Ecological Precautions:

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

Ecological Effects:

No specific environmental or aquatic data available.

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 flush to surface waters or drains.

14 TRANSPORT INFORMATION

<u>UN Number:</u>	Data not available
<u>UN Shipping Name:</u>	Data not available
<u>Transport Hazard Class:</u>	Data not available
<u>Packing Group:</u>	Data not available



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Diesel Force Oil System Cleaner Concentrate

SDS Number: DF430
DF420

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Not regulated by DOT.

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

16	OTHER INFORMATION
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