



Safety Data Sheet

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Lyden Fuel Force Radiator Treatment

SDS Number: FF930

1 PRODUCT AND COMPANY INFORMATION

Product Name: Lyden Fuel Force Radiator Treatment
Revision Date: 03/06/2025
SDS Number: FF930
Common Name: N/A
CAS Number: Blend
Product Code: FF930
Synonyms: Cooling system treatment

Company Identification:

Manufactured for:
LYDEN OIL COMPANY
30692 Tracy Rd.
Walbridge, OH 43462
www.lydenoil.com

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

2 HAZARDS IDENTIFICATION



Signal Word: **WARNING**

Hazard Classes/Categories: Reproductive toxicity, Category 2.

Hazard Statement(s): H361: Suspected of damaging fertility or the unborn child.



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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.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
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.

Other Hazard Statement(s):

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

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Sodium Metaborate	10555-76-7	<1.0
Sodium Nitrite	7632-00-0	<1.0

**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:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.



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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. Discard leather articles saturated with the material.

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:

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

Symptoms and Effects, both acute and delayed:

May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Recommended Actions:

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

5 FIRE FIGHTING MEASURES

Recommended Fire-Extinguishing Equipment:

CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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 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:

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Prevent formation of aerosols.

Keep respiratory protective device available.

Storage Requirements:

Store in a cool dry place in tightly closed containers.

Keep receptacle tightly sealed.

Keep from freezing.



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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls:

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

Personal Protective Equipment:

-General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
Store protective clothing separately.
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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Purple
Physical State:	Liquid
Odor:	Caustic
Odor Threshold:	Data not available
pH:	11.2
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:	17 mmHg at 20° C
Vapor Density:	Data not available
Relative Density:	1.15 g/cm ³ (9.597 lbs/gal)



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Solubilities:	Data not available
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: No known hazardous reactions.

Incompatible Materials: Strong oxidizers and reducing agents.

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:

- On the skin: May cause mild skin irritation. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis.
- On the eye: May cause eye irritation.



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- Inhalation: May cause respiratory tract irritation.
- Ingestion: May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Measures of Toxicity:

-Cooling System Treatment

Oral LD50 26569 mg/kg (rat) (ATE)

-7632-00-0 sodium nitrite

Oral LD50 85 mg/kg (rat)

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

12 ECOLOGICAL INFORMATION

Ecological Precautions:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH values.
A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Ecological Effects:

No specific environmental or aquatic data available.



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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: Data not available

UN Shipping Name: Data not available

Transport Hazard Class: Data not available

Packing Group: Data not available

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Not regulated by DOT.

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.

16 OTHER INFORMATION

Last Revision Date: 03/06/2025

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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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

1 PRODUCT AND COMPANY INFORMATION

Product Name: Lyden Fuel Force Coolant System Cleaner (Universal)
Revision Date: 03/06/2025
SDS Number: FF950
Common Name: N/A
CAS Number: Blend
Product Code: FF950
Synonyms: Cooling system flush

Company Identification:

Manufactured for:
LYDEN OIL COMPANY
30692 Tracy Rd.
Walbridge, OH 43462
www.lydenoil.com

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

2 HAZARDS IDENTIFICATION



Signal Word:

DANGER

Hazard Classes/Categories:

Skin corrosive, Category 1A.
Serious eye irritation, Category 2A.
Reproductive toxicity, Category 2.



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

Hazard Statement(s):

H314: Causes severe skin burns and eye damage.
H319: Causes serious eye irritation.
H361: Suspected of damaging fertility or the unborn child.

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.
P260: Do not breathe dust/fumes/gas/mist/vapors/spray.
P264: Wash thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P301+330+331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
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.
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.

Other Hazard Statement(s):

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



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

3 COMPOSITION / INFORMATION ON INGREDIENTS

Ingredients:

Mixture of the substances listed below with nonhazardous additions.

Chemical Name	CAS Number	Percentage
Sodium Metaborate	10555-76-7	2.5-5
Sodium Nitrite	7632-00-0	1-2.5
Disodium Metasilicate	6834-92-0	1-2.5
Tetrasodium Ethylenediaminetetraacetate	64-02-8	1-2.5

**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. Discard leather articles saturated with the material.

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:

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



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

Symptoms and Effects, both acute and delayed:

-Most important symptoms and effects, both acute and delayed:
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.
Irritating to skin and eyes. Could cause dermatitis. Will cause nausea and vomiting.
May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Recommended Actions:

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

5 FIRE FIGHTING MEASURES

Recommended Fire-Extinguishing Equipment:

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

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:

Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
Keep respiratory protective device available.

Storage Requirements:

Store in a cool dry place in tightly closed containers.
Keep receptacle tightly sealed.
Keep from freezing.



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Engineering Controls:

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

Personal Protective Equipment:

-General protective and hygienic measures:
Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing.
Store protective clothing separately.
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.

9 PHYSICAL AND CHEMICAL PROPERTIES

Color:	Light Purple
Physical State:	Liquid
Odor:	Caustic
Odor Threshold:	Data not available
pH:	12.2
Melting Point:	Data not available
Boiling Point:	100° C / 212° F
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:	17 mmHg at 20° C
Vapor Density:	Data not available
Relative Density:	1.15 g/cm ³ (9.597 lbs/gal)



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

Solubilities:	Data not available
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:

No known hazardous reactions.

Incompatible Materials:

Strong oxidizers and reducing agents.

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:

- On the skin: Caustic effect on skin and mucous membranes.
- On the eye: Strong irritant with the danger of severe eye injury.



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

- Inhalation:
May cause respiratory tract irritation.
With exposure to large amount of material.
- Ingestion:
May be harmful if swallowed. May cause stomach distress, nausea or vomiting.

Measures of Toxicity:

- Cooling System Cleaner

Oral LD50 5288 mg/kg (ATE)
41.0
- 7632-00-0 sodium nitrite

Oral LD50 85 mg/kg (rat)
- 6834-92-0 disodium metasilicate

Oral LD50 1280 mg/kg (rat)
- 64-02-8 tetrasodium ethylenediaminetetraacetate

Oral LD50 500 mg/kg (ATE)

Carcinogenic/Mutagenic Precautions:

Non-carcinogenic and not expected to be mutagenic.

12	ECOLOGICAL INFORMATION
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Ecological Precautions:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH values.



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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

14 TRANSPORT INFORMATION

UN Number: Data not available

UN Shipping Name: Data not available

Transport Hazard Class: Data not available

Packing Group: Data not available

Environmental Hazards:

Data not available

Bulk Transport Guidance:

Data not available

Special Precautions:

Not regulated by DOT.



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Lyden Fuel Force Coolant System Cleaner (Universal)

SDS Number: FF950

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.

16 OTHER INFORMATION

Last Revision Date: 03/06/2025

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