

**LubriBOR®**

ACCORDING TO GHS

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1 GHS Product Identifier**

Product Name LubriBOR®  
Synonyms Nalco 5403

**1.2 Recommended use of the chemical and restrictions on use**

Identified Use(s) Corrosion inhibitor  
Uses Advised Against Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

**1.3 Supplier's details**

Manufacturer  
Company Identification Hammonds Fuel Additives, Inc.  
Address of Manufacturer 6951 W Little York  
Postal code Houston, Texas 77040  
Telephone: +1 800-548-9166  
E-mail sales@biobor.com  
Office hours Monday-Friday 8:00am-5:00pm EST  
Supplier

Company Identification Hammonds Fuel Additives, Inc.  
Address of Supplier 6951 W Little York  
Postal code Houston, Texas 77040  
Telephone: +1 800-548-9166  
E-mail sales@biobor.com  
Office hours Monday-Friday 8:00am-5:00pm EST

**1.4 Emergency telephone number**

Emergency Phone No. Within United States; Canada; Puerto Rico; US Virgin Islands: 1-800-255-3924  
Outside North America: +1-813-248-0585 (Collect calls accepted)  
Contact ChemTel

**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

GHS Classification Flam. Liq. 4 :Combustible liquid  
Acute Tox. 5 :May be harmful if swallowed.  
Asp. Tox. 1 :May be fatal if swallowed and enters airways.  
Carc. 2 :Suspected of causing cancer.

**2.2 GHS label elements, including precautionary statements**

GHS  
Product Name LubriBOR®

Hazard Pictogram(s)



GHS08

Signal Word(s) Danger

Hazard Statement(s)  
H227: Combustible liquid  
H303: May be harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H351: Suspected of causing cancer.

Precautionary Statement(s)  
P102: Keep out of reach of children.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243: Take action to prevent static discharges.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands and exposed skin thoroughly after handling.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
P501: Dispose of contents in accordance with local, state or national legislation.

**Lubribor®****2.3 Other hazards which do not result in classification**

None known.

**2.4 Additional Information**

For full text of H/P Statements see section 16.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1 Substances**

Not applicable.

**3.2 Mixtures**

HAZARDOUS INGREDIENT(S)	CAS No.	%W/W	Hazard Statement(s)	Hazard Pictogram(s)
Heavy Aromatic Naphtha	64742-94-5	30-60	Flam. Liq. 4 H227 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Acute 2 H401 Aquatic Chronic 2 H411	GHS08 GHS07 GHS09
naphthalene	91-20-3	1-5	Not classified.	None
1,2,4-trimethylbenzene	95-63-6	1-5	Not classified.	None

For full text of H/P Statements see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of necessary first-aid measures**

Inhalation Treat symptomatically.  
Skin Contact Treat symptomatically.  
Eye Contact Treat symptomatically.  
Ingestion Do NOT induce vomiting. Immediately call a POISON CENTRE/doctor.

**4.2 Most important symptoms/effects, acute and delayed**

Treat symptomatically.

**4.3 Indication of immediate medical attention and special treatment needed, if necessary**

IF exposed or concerned: Get medical advice/attention. Treat symptomatically.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable Extinguishing media Use water spray, dry powder or carbon dioxide to extinguish.  
Unsuitable extinguishing media None.

**5.2 Special hazards arising from the chemical**

May decompose in a fire giving off toxic fumes.

**5.3 Special protective actions for fire-fighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Provide adequate ventilation. Ensure full personal protection (including respiratory protection) during removal of spillages.

**6.2 Environmental precautions**

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**6.3 Methods and material for containment and cleaning up**

Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a container for disposal. Containers must not be punctured or destroyed by burning, even when empty.

**6.4 Reference to other sections**

See Also Section 8, 13.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

Obtain special instructions before use. Do not handle until all safety precautions

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have been read and understood. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

**7.2 Conditions for safe storage, including any incompatibilities**

Storage temperature  
Storage life  
Incompatible materials  
**7.3 Specific end use(s)**

Store in a well-ventilated place. Keep cool. Store locked up. Keep out of reach of children.  
Ambient.  
Stable under normal conditions.  
None known.

Corrosion inhibitor

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
Naphthalene	91-20-3	10				C3, Pc

Region Canada - English Source Regulation respecting occupational health and safety, Permissible Exposure Values for Airborne Contaminants, January 2022, Quebec, Canada.

Remark C3 Notes carcinogenic effect detected in animals. Results of studies relating to the carcinogenicity of these substances in animals are not necessarily applicable to humans.  
Pc SKIN (percutaneous): The designation "Pc" in the Designation and remarks column refers to the potentially significant contribution to the overall exposure by the cutaneous route. Exposure is by contact with vapours or, of probable greater significance, by direct skin contact with the substance. The cutaneous route includes mucous membranes and the eyes.

**8.2 Exposure controls**

8.2.1. Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection.

8.2.2. Individual protection measures, such as personal protective equipment  
Eye Protection



Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.



Thermal hazards

None known.

8.2.3. Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

Appearance Liquid.  
Colour : Dark Amber  
Odour Hydrocarbon Like  
Odour threshold Not known.  
pH Not known.  
Melting point/freezing point Pour Point: <-45.6°C  
Initial boiling point and boiling range Not known.

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Flash Point	66 °C 66°C ASTM D 93, Pensky-Martens closed cup
Evaporation rate	Not known.
Flammability (solid, gas)	Not known.
Upper/lower flammability or explosive limits	Not known.
Vapour pressure	1.0 mm Hg (23.9°C) 1.6 mm Hg (37.8°C) 3.6 mm Hg (51.7°C)
Vapour density	Not known.
Density (g/ml)	7.6 - 7.8 lb/gal
Relative density	Not known.
Solubility(ies)	Solubility (Water) : Insoluble Solubility (Other) : Not known.
Partition coefficient: n-octanol/water	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature (°C)	Not known.
Viscosity	Kinematic: 20-40 mm <sup>2</sup> /s (37.8°C); 15-35 mm <sup>2</sup> /s (40°C)
Explosive properties	Not known.
Oxidising properties	Not known.
<b>9.2 Other information</b>	None.

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

None anticipated.

**10.2 Chemical Stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

No hazardous reactions known if used for its intended purpose.

**10.4 Conditions to avoid**

Avoid friction, sparks, or other means of ignition.

**10.5 Incompatible materials**

Not known.

**10.6 Hazardous decomposition products**

No hazardous decomposition products known.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects**

Acute toxicity - Ingestion	Self classification: May be harmful if swallowed.
Acute toxicity - Skin Contact	Self classification: Not classified.
Acute toxicity - Inhalation	Self classification: Not classified.
Skin corrosion/irritation	Calculation method : Not classified.
Serious eye damage/irritation	Calculation method : Not classified.
Skin sensitization data	Calculation method : Not classified.
Respiratory sensitization data	Calculation method : Not classified.
Germ cell mutagenicity	Calculation method : Not classified.
Carcinogenicity	Self classification: Suspected of causing cancer.
Reproductive toxicity	Calculation method : Not classified.
Lactation	Calculation method : Not classified.
STOT - single exposure	Calculation method : Not classified.
STOT - repeated exposure	Calculation method : Not classified.
Aspiration hazard	Self classification: May be fatal if swallowed and enters airways.

**11.2 Other information**

Not known.

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity**

Toxicity - Aquatic invertebrates	Low toxicity to invertebrates.
Toxicity - Fish	Low toxicity to fish.
Toxicity - Algae	Low toxicity to algae.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.

**12.2 Persistence and degradability**

Not known.

**12.3 Bioaccumulative potential**

Not known.

**12.4 Mobility in soil**

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12.5 Other adverse effects  
Not known.  
Not known.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Disposal Method**

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Dispose of this material and its container to hazardous or special waste collection point. Dispose at suitable refuse site.

**13.2 Additional Information**

Disposal should be in accordance with local, state or national legislation.

**SECTION 14: TRANSPORT INFORMATION**

Not classified as hazardous for transport.

**14.1 UN number**

Not applicable

**14.2 UN proper shipping name**

Not applicable

**14.3 Transport hazard class(es)**

Not applicable

**14.4 Packing Group, if applicable**

Not applicable

**14.5 Environmental hazards**

Not classified as a Marine Pollutant.

**14.6 Special precautions for user**

Not known

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not known

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations specific for the product in question**

OSPAR List of Chemicals for Priority Action Not listed

NTP (National Toxicology Program ) Listed : 91-20-3

IARC (International Agency for Research on Cancer ) Listed : 91-20-3

**SECTION 16: OTHER INFORMATION**

The following sections contain revisions or new statements:

**LEGEND**

Hazard Pictogram(s)



GHS08

GHS07: GHS: Exclamation mark

GHS09: GHS: Environment

Hazard classification

Flam. Liq. 4 : Flammable liquid, Category 4

Acute Tox. 5 : Acute toxicity, Category 5

Asp. Tox. 1 : Aspiration hazard, Category 1

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

STOT SE 3 : Specific target organ toxicity — single exposure, Category 3

Carc. 2 : Carcinogenicity, Category 2

Aquatic Acute 2 : Hazardous to the aquatic environment, Acute, Category 2

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Aquatic Chronic 2 : Hazardous to the aquatic environment, Chronic, Category 2

## Hazard Statement(s)

H227: Combustible liquid  
H303: May be harmful if swallowed.  
H304: May be fatal if swallowed and enters airways.  
H315: Causes skin irritation.  
H336: May cause drowsiness or dizziness.  
H351: Suspected of causing cancer.  
H401: Toxic to aquatic life.  
H411: Toxic to aquatic life with long lasting effects.

## Precautionary Statement(s)

P102: Keep out of reach of children.  
P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P243: Take action to prevent static discharges.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash hands and exposed skin thoroughly after handling.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P310: IF SWALLOWED: Immediately call a POISON CENTRE/doctor.  
P301+P312: IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell.  
P308+P313: IF exposed or concerned: Get medical advice/attention.  
P331: Do NOT induce vomiting.  
P370+P378: In case of fire: Use water spray, dry powder or carbon dioxide to extinguish.  
P403: Store in a well-ventilated place.  
P405: Store locked up.  
P501: Dispose of contents in accordance with local, state or national legislation.

## Acronyms

ATE : Acute Toxicity Estimate  
CAS : Chemical Abstracts Service  
GHS : Globally Harmonised System of Classification and Labelling of Chemicals  
LTEL : Long term exposure limit  
PNEC : Predicted No Effect Concentration  
STEL : Short term exposure limit  
STOT : Specific Target Organ Toxicity

Key literature references and sources for GHS Classification  
data used to compile the SDS  
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