



# SAFETY DATA SHEET

## SECTION 1 - IDENTIFICATION

**PRODUCT NAME:** HB-1000 DIESEL FUEL IMPROVER

Unless otherwise noted, all sections of this SDS apply to each of the following products and part numbers.

**PART NUMBERS:** HB-1000


**COMPANY IDENTIFICATION:**

H&B Industries, Inc.  
9758 Abernathy Ave  
Dallas, TX 75220  
Email: info@hbind.com  
Phone: 214-350-1984

**Emergency Phone Number:** INFOTRAC 800-535-5053

**RECOMMENDED USES:** Diesel fuel additive

## SECTION 2 – HAZARD(S) IDENTIFICATION

**CLASSIFICATION UNDER 29 CFR 1910.1200(d)**

*(NC=product does not meet classification criteria)*

	<b>1:500 Treatment Ratio</b>	<b>1:1000 Treatment Ratio</b>	
<b>Health Hazard Criteria</b>	<b>Category</b>	<b>Category</b>	
Acute Toxicity, Oral:	NC	NC	
Acute Toxicity, Dermal:	NC	NC	
Acute Toxicity, Inhalation, Vapors:	3	3	

	<b>1:500 Treatment Ratio</b>	<b>1:1000 Treatment Ratio</b>	
<b>Health Hazard Criteria</b>	<b>Category</b>	<b>Category</b>	
Skin Corrosion/Irritation:	2	2	
Serious Eye Damage/Eye Irritation:	2	2	
Respiratory Sensitization:	NC	NC	
Skin Sensitization:	NC	NC	
Germ Cell Mutagenicity:	NC	NC	
Carcinogenicity:	2	2	
Reproductive Toxicity:	NC	NC	
Specific Target Organ Toxicity, Single Exposure:	3	3	
Specific Target Organ Toxicity, Repeated or Prolonged Exposure:	NC	NC	
Aspiration Hazard:	1	1	

	<b>1:500 Treatment Ratio</b>	<b>1:1000 Treatment Ratio</b>	
<b>Physical Properties Criteria</b>	<b>Category</b>	<b>Category</b>	
Explosives:	NC	NC	
Flammable Gases:	NC	NC	
Flammable Aerosols:	NC	NC	
Oxidizing Gases:	NC	NC	
Gases Under Pressure:	NC	NC	
Flammable Liquids:	3	3	
Flammable Solids:	NC	NC	
Self-Reactive Chemicals:	NC	NC	
Pyrophoric Liquids:	NC	NC	
Pyrophoric Solids:	NC	NC	
Self-Heating Chemicals:	NC	NC	
Chemicals Which, in Contact with Water, Emit Flammable Gases:	NC	NC	
Oxidizing Liquids:	NC	NC	
Oxidizing Solids:	NC	NC	
Organic Peroxides:	NC	NC	
Corrosive to Metals:	NC	NC	

**LABEL SIGNAL WORD, HAZARD STATEMENTS, SYMBOLS AND PRECAUTIONARY STATEMENTS UNDER 29 CFR 1910.1200(f):**

*Please see the Note regarding product labeling in Section 16.*

	<b>1:400 Treatment Ratio</b>	<b>1:1000 Treatment Ratio</b>	
<b>Signal Word</b>	<b>Danger</b>	<b>Danger</b>	

**Hazard Statement(s):** Flammable liquid and vapor. Toxic if inhaled. May be fatal if swallowed and enters airways. Harmful if swallowed. Causes skin and serious eye irritation. May cause respiratory irritation and drowsiness or dizziness.

**Symbols:** The following symbols are for all treatment ratios.



**Precautionary Statement(s):** Keep away from sparks and open flames. No smoking. Keep container tightly closed. Use only non-sparking tools. Ground/Bond container and receiving equipment. Use explosion-proof pumps when pumping. Take precautionary measures against static discharge. Avoid breathing vapors. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves and eye protection. Store locked up and in cool, well ventilated place. **KEEP OUT OF REACH OF CHILDREN.**

**Hazards Not Otherwise Classified: None**

### SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

The specific chemical identity and exact concentration percentage has been withheld as a Trade Secret. Specific chemical information will be made available to health professionals in accordance with 29 CFR 1910.1200.

#### INGREDIENTS CLASSIFIED AS HEALTH HAZARDS

<b>TREATMENT RATIO 1:500</b>			
<b>Chemical Name</b>	<b>Common Name/Synonyms</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
Petroleum Distillates	Trade secret	Trade secret	50 - 90
Hydroxy alkoxylate	Trade secret	Trade secret	4 - 10
Alkyl Nitrates	Trade secret	Trade secret	2 - 6
Naphthalene	Not available	91-20-3	0.05 – 0.2

<b>TREATMENT RATIO 1:1000</b>			
<b>Chemical Name</b>	<b>Common Name/Synonyms</b>	<b>CAS Number</b>	<b>Concentration (%)</b>
Petroleum Distillates	Trade secret	Trade secret	40 - 90
Alkyl Nitrates	Trade secret	Trade secret	5 - 15
Aromatic Hydrocarbons	Trade secret	Trade secret	2 - 5
Hexan-1-ol, 2-ethyl	Trade secret	Trade secret	1 - 4
Naphthalene	Not available	91-20-3	0.1 – 0.5


#### **SECTION 4 - FIRST AID MEASURES**

As a precaution, exposure to liquids, vapors, mists and fumes should be minimized.

**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 advice.

**SKIN CONTACT:** Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs get medical advice/attention.

**INHALATION:** Remove person to fresh air and keep comfortable for breathing. Call a doctor.

**INGESTION:** If swallowed, IMMEDIATELY call a doctor. Do NOT induce vomiting.

#### **SECTION 5 - FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** Use water fog, alcohol-resistant foam, dry chemical or carbon dioxide (CO<sub>2</sub>) to extinguish flames.

**SPECIFIC HAZARDS:** Vapors are heavier than air and may travel along the ground to a distant ignition source and flash back. See Section 10 for Stability and Reactivity. **NOTE:** EMPTY CONTAINERS CONTAIN COMBUSTIBLE VAPORS THAT CAN CAUSE FLASH FIRES OR EXPLOSIONS. CONTAINERS ARE SINGLE-TRIP CONTAINERS AND SHOULD NOT BE USED FOR ANY REASON AFTER BEING EMPTIED. DO NOT USE CUTTING TORCH

EQUIPMENT OR ANY OTHER FLAME OR OTHER SOURCES OF IGNITION ON ANY EMPTY CONTAINER.

**PROTECTIVE EQUIPMENT AND PRECAUTIONS:** Use standard protective equipment including self-contained breathing apparatus (SCBA).

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES:** Avoid contact with spilled material. Warn or evacuate occupants in surrounding and downwind areas. Eliminate all sources of ignition in the vicinity of the spill or released vapor. See Section 2 for Hazards Identification. See Section 4 for First Aid Measures. See Section 5 for Fire Fighting Information. See Section 8 for Personal Protective Equipment.

**SPILL CONTAINMENT AND CLEAN-UP:** Eliminate potential sources of ignition. Stop leak if it can be done without risk. Dike and contain spill. Do not touch or walk through spilled material. Prevent entry into waterways, sewer, basements or confined areas. Remove with vacuum trucks or pump to storage/salvage vessels. Soak up residue with an absorbent such as clay, sand or other suitable material and dispose of properly. A vapor suppressing foam may be used to reduce vapors. Local, state and federal laws and/or regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up releases. The user/responder will need to determine which local, state and federal laws and/or regulations are applicable. The National Response Center can be reached at 1-800-424-8802.

## SECTION 7 - HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE HANDLING:** Avoid contact with eyes and skin. Use only with adequate ventilation. Use proper bonding and/or grounding procedures. Prevent small spills and leakage to avoid slip hazard. Material can accumulate static charges which may cause an electrical spark (ignition source). Keep away from ignition sources such as heat, sparks, and flames. No smoking.

**CONDITIONS FOR SAFE STORAGE:** DO NOT USE OR STORE near heat, sparks, or flame. USE AND STORE ONLY IN A WELL-VENTILATED AREA. Handle containers with care. Keep container tightly closed when not in use. Store locked up.

### STORAGE TEMPERATURE:

Treatment Ratio	Part Numbers:	Storage Temperature:
1:500 Treatment Ratio	5255, 5205	-20°F to 104°F (-29°C to 40°C)
1:1,000 Treatment Ratio	5255, 5205	0°F to 104°F (-18°C to 40°C)

--	--	--

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION HAZARD DATA.

<b>SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
--

**EXPOSURE GUIDELINES:**

	CAS #	OSHA	ACGIH	NIOSH				Note
		PEL	TLV	STEL	REL	STEL	IDLH	
Ethylbenzene	100-41-4	100 ppm	20 ppm	not est.	100 ppm	125 ppm	800 ppm (LEL)	n/a
Naphthalene	91-20-3	10 ppm	10 ppm	not est.	10 ppm	15 ppm	250 ppm	skin
Petroleum Distillates	n/a	500 ppm	not est.	not est.	not est.	not est.	not est.	n/a
Cumene	98-82-8	50 ppm	50 ppm	not est.	50 ppm	not est.	900 ppm (LEL)	Skin
Toluene	108-88-3	100 ppm	20 ppm	not est.	100 ppm	150 ppm	500 ppm	Skin
Hydroxy Alkoxylate	Proprietary	50 ppm	20 ppm	not est.	5 ppm	not est.	not est.	skin

**ENGINEERING CONTROLS:** The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Local exhaust ventilation is recommended to control exposure.

**PERSONAL PROTECTIVE EQUIPMENT (PPE):**

**Eyes and Face:** Eye protection such as safety glasses or chemical goggles is recommended if contact is likely.

**Skin:** Protective chemical/oil resistant gloves are recommended. Wear additional protective clothing as appropriate.

**Respiratory:** Wear a NIOSH/MSHA approved respirator as necessary.

**Specific Hygiene Measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Practice good housekeeping.

**NOTE:** These precautions are for room temperature handling.

<b>SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES</b>
---

	<b>1:500 Treatment Ratio</b>	<b>1:1000 Treatment Ratio</b>	
<b>Appearance</b>	Liquid, brown	Liquid, brown	
<b>Odor</b>	Aromatic solvent	Aromatic solvent	
<b>Odor Threshold</b>	Not available	Not available	
<b>pH</b>	7 – 8 (slightly basic)	7 – 8 (slightly basic)	
<b>Melting point/Freezing point</b>	Not available	Not available	
<b>Initial Boiling Point and Boiling Range</b>	300°F (149°C)	300°F (149°C)	
<b>Flash Point</b>	105°F (40.5°C)	116°F (46.6°C)	
<b>Evaporation Rate</b>	Not available	Not available	
<b>Flammability</b>	Not available	Not available	
<b>Upper / lower Flammability or Explosive Limits</b>	Not available	Not available	
<b>Vapor Pressure</b>	0.2 – 0.95	0.2 – 0.95	
<b>Vapor Density</b>	>5.0	>5.0	
<b>Relative Density/Specific Gravity (at 60°F)</b>	0.910	0.912	
<b>Solubility</b>	Not available	Not available	
<b>Partition Coefficient; n-octanol / water</b>	Not available	Not available	
<b>Auto-ignition Temperature</b>	Not available	Not available	
<b>Decomposition temperature</b>	Not available	Not available	
<b>Viscosity</b>	Not available	Not available	
<b>Pour Point</b>	-55°F (-48°C)	-30°F (-34°C)	

<b>SECTION 10 - STABILITY AND REACTIVITY</b>
--

**REACTIVITY:** see Incompatible Materials below

**CHEMICAL STABILITY:** This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

**POSSIBILITY OF HAZARDOUS REACTION:** Hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Flames, high energy ignition sources, and elevated temperatures.

**INCOMPATIBLE MATERIALS:** May react with strong oxidizing agents, such as; chlorates, nitrates, peroxides, nitrogen oxides, sulfur oxides, etc.; alkalis; nitric acid; sulfuric acid; aluminum; brass; copper; reducing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:** Carbon oxides, products of incomplete combustion.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**LIKELY ROUTES OF EXPOSURE**

	INGESTION	INHALATION	SKIN CONTACT	EYE CONTACT	SKIN ABSORPTION
<b>1:500 Treatment Ratio</b>		X	X	X	X
<b>1:1000 Treatment Ratio</b>		X	X	X	X

**SYMPTOMS RELATED TO PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:** Breathing of high vapor concentrations may cause dizziness, light-headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. The vapor or fumes from this material may cause respiratory irritation. Breathing this material at elevated concentrations causes central nervous system effects. Central nervous system effects may include headache, dizziness, nausea, vomiting, weakness, loss of coordination, blurred vision, drowsiness, confusion or disorientation. At extreme exposures, central nervous system effects may include respiratory depression, tremors, or convulsions, loss of consciousness, coma or death.

**DELAYED AND IMMEDIATE EFFECTS AND CHRONIC EFFECTS FROM SHORT- AND LONG-TERM EXPOSURE:** Repeated skin exposure to a component of this product may cause irritation, even a burn; may cause a more severe response on covered skin, such as under clothing or gloves. Inhalation exposure to a component of this product has caused fetotoxicity in the presence of maternal toxicity in animals.

**NUMERICAL MEASURES OF TOXICITY**

Note: the information provided below are estimates; testing of the product is not available.

Treatment Ratio	Acute Oral Toxicity (ATE <sub>mix</sub> estimate)	Acute Dermal Toxicity (ATE <sub>mix</sub> estimate)	Acute Inhalation (ATE <sub>mix</sub> estimate)
<b>1:500 Treatment Ratio</b>	Does not meet criteria	Does not meet criteria	7.10 (vapors)
<b>1:1,000 Treatment Ratio</b>	Does not meet criteria	Does not meet criteria	8.56 (vapors)

**SENSITIZATION:** No information available.

**MUTAGENICITY:** No information available.

**CARCINOGENICITY LISTINGS – the following chemicals are listed as indicated:**



Chemical	List
Cumene	IARC, NTP
Ethylbenzene	IARC
Naphthalene	IARC, NTP

**REPRODUCTIVE TOXICITY:** No information available.

**TERATOGENICITY/EMBRYOTOXICITY:** Hydroxy Alkoxylate has caused fetotoxicity with maternal toxicity. This product contains a component of a complex mixture (Xylenes (1330-20-7)) that has been shown to cause teratogenicity and/or embryotoxicity.

**SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):** Respiratory tract irritation, drowsiness/dizziness.

**SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE):** No information available

**ASPIRATION HAZARD:** Aspiration hazard identified.

## SECTION 12 - ECOLOGICAL INFORMATION

**ECOTOXICITY:** This material is expected to be toxic to aquatic organisms.

**PERSISTENCE AND DEGRADABILITY:** No information available.

**BIOACCUMULATIVE POTENTIAL:** No information available.

**MOBILITY IN SOIL:** No information available.

**OTHER ADVERSE EFFECTS:** No information available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

**RCRA Information:** Disposal of unused product may be subject to RCRA hazardous waste regulations (40 CFR Part 261). Disposal of the used product may also be regulated as hazardous waste due to resulting mixture characteristics, mixture components or product use. Such changes to the product may result in different and/or additional hazardous waste codes. Potential RCRA waste code based on the product as shipped: D001 IGNITABILITY

State or local laws may impose additional regulatory requirements regarding disposal. *Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.*

**EMPTY CONTAINER WARNING:** EMPTY CONTAINERS MAY CONTAIN COMBUSTIBLE VAPORS AND CAN BE DANGEROUS. SEE SECTION 5 FOR FIRE AND EXPLOSION

HAZARD DATA. Dispose or recycle empty containers appropriately per local, state and federal regulations.

<b>SECTION 14 - TRANSPORTATION INFORMATION</b>
--

The following part numbers are not regulated by DOT:

<b>1:500 Treatment Ratio</b>	5205, 5255
<b>1:1,000 Treatment Ratio</b>	5205, 5255

--	--

**PROPER SHIPPING NAME:** Combustible Liquid, N.O.S., (Petroleum Distillates) Marine Pollutant (2-Ethylhexyl Nitrate)  
**HAZARD CLASS:** Combustible Liquid  
**I.D. NUMBER:** NA 1993  
**PACKING GROUP:** III  
**PLACARDING:** Combustible Liquid  
**MARINE POLLUTANT:** Yes

<b>1:1,000 Treatment Ratio</b>	1000
--------------------------------	------

**PROPER SHIPPING NAME:** Combustible Liquid, N.O.S., (Petroleum Distillates) Marine Pollutant (2-Ethylhexyl Nitrate) RQ (Xylene, Naphthalene)  
**HAZARD CLASS:** Combustible Liquid  
**I.D. NUMBER:** NA 1993  
**PACKING GROUP:** III  
**PLACARDING:** Combustible Liquid  
**MARINE POLLUTANT:** Yes  
**PRODUCT RQ:** 100 lbs. (45.45 kg) – Xylene, Naphthalene

--	--

## SECTION 15 - REGULATORY INFORMATION

### §14(a) Consumer Product Safety Act General Certificate of Conformity

H&B Industries, Inc. certifies that this product meets the statutory and regulatory requirements of the US Consumer Products Safety Act, the Federal Hazardous Substances Act, and the Poison Prevention Packaging Act of 1970, as applicable. The H&B Industries products are manufactured in the United States in Dallas, Texas, unless otherwise indicated on the product label. The product manufacture lot code is stamped on the product container. This Certification is based upon a reasonable testing program conducted by H&B Industries, Inc. which includes a quality control program incorporating, as necessary, confirmation of compliance by component suppliers. Third-party testing is not required to certify compliance. Further details may be obtained by contacting the H&B Industries, Inc. EHS Manager at 1-214-350-1984.

Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

#### TSCA STATUS:

All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.

#### EPA SARA TITLE III CHEMICAL LISTINGS:

**Section 302 Extremely Hazardous Substances:** None

#### Sections 311/ 312 Hazard Class:

Acute Health Effects: Yes      Sudden Release of Pressure Hazard: No  
Chronic Health Effects: Yes      Reactivity Hazard: No  
Fire Hazard: Yes

#### NFPA (NATIONAL FIRE PROTECTION ASSOCIATION) RATING:

HEALTH: 2  
FIRE: 2  
REACTIVITY: 0

#### Section 313:

Specific chemical information is being withheld as a Trade Secret. The following chemicals subject to the reporting requirements of EPCRA Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (40 CFR Part 372) may be present in this product at a concentration that does not exceed the specified upper weight percentage.

Treatment Ratio	CAS Number	Chemical Name	Max %
1:500 Treatment Ratio	100-41-4	Ethylbenzene	24.0
	NA	Glycol Ether Category	8.0

Treatment Ratio	CAS Number	Chemical Name	Max %
	91-20-3	Naphthalene	1.0
	98-82-8	Cumene	4.0
	108-88-3	Toluene	4.0
1:1000 Treatment Ratio	100-41-4	Ethylbenzene	19.0
	91-20-3	Naphthalene	1.0
	98-82-8	Cumene	3.5
	108-88-3	Toluene	3.5

State or local laws may impose additional regulatory requirements for components of this material. It is the responsibility solely of the Employer to maintain compliance with State and Local reporting.

**This product contains a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm: ethylbenzene, toluene, cumene, naphthalene.**

<b>SECTION 16 – OTHER INFORMATION</b>
---------------------------------------

**DATE OF PREPARATION / REVISION: 01/25/2023**

**NOTE regarding product labeling: The OSHA Hazard Communication Standard applies to hazardous chemicals known to be present in the workplace. However, the labeling and Safety Data Sheet requirements do not apply to consumer products when they are used in the workplace for the purposes intended by the manufacturer and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the intended purpose. H&B Industries, Inc intends for product packaged in 1 gallon or smaller containers to be used by consumers and has labeled those containers as required under the Consumer Product Safety Commission regulations. . H&B Industries, Inc intends for product packaged in containers larger than 1 gallon to be used in the workplace and has labeled those products as required by the OSHA Hazard Communication Standard. The Consumer Product Safety Commission and OSHA Hazard Communication Standard labeling requirements are different and variations between the consumer and industrial labels may occur. It is the employer’s responsibility to purchase the appropriate product for use in the workplace.**

The information contained herein is offered in good faith and is believed to be accurate based on the data available to us as of the date of SDS preparation. The information in this document applies to this specific product as supplied. It may not be appropriate for this product if the product is used in combination with other materials. The information in this document is not intended to constitute product performance information. Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product. No statement shall be construed as an endorsement of any product or process. The recommended

industrial hygiene and safe handling procedures are believed to be valid in the context of the intended use as described in product labeling. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate. You are urged to obtain material safety data sheets for all products you buy, process, use or distribute, and are encouraged to advise those who may come in contact with such products of the information contained therein. Regulatory requirements are subject to change and may differ between locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. No warranty or guarantee is expressed or implied with respect to this product, the accuracy and sufficiency of the data or recommendations herein, or the results to be obtained from the use of this product. IN NO EVENT SHALL H&B Industries, INC. BE LIABLE FOR ANY LOSS, CLAIM, DAMAGE OR LIABILITY OF ANY KIND, WHICH MAY ARISE FROM OR IN CONNECTION WITH THE INFORMATION CONTAINED IN THIS DOCUMENT OR FROM THE USE, HANDLING OR STORAGE OF THE PRODUCT BY THE BUYER/USER, WHETHER DIRECT, INDIRECT, OR CONSEQUENTIAL, OR FOR ANY CLAIM BY ANY THIRD PARTY, BEYOND THE PURCHASE PRICE OR REPLACEMENT OF THE PRODUCT IN CONNECTION WITH WHICH SUCH LOSS, CLAIM, DAMAGE OR LIABILITY AROSE.

THE FOREGOING LIMITATIONS APPLY REGARDLESS OF THE CAUSES OR CIRCUMSTANCES GIVING RISE TO SUCH LOSS, CLAIM, DAMAGE OR LIABILITY, EVEN IF SUCH LOSS, CLAIM, DAMAGE, OR LIABILITY IS BASED ON NEGLIGENCE OR OTHER TORTS OR BREACH OF CONTRACT.