SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY INFORMATION

Product Name: **HB-1117 DIESEL EXHAUST FLUID**

Product Use: DEF

Manufactures Name: H&B Industries, Inc.
9758 Abernathy Ave
Dallas, TX 75220

Emergency Assistance: 870-247-2315 Business Telephone No.: (214) 350-1984 Product Assistance (214) 350-1984

SECTION 2: HAZARD IDENTIFICATION

United States (U.S.)
According to OSHA 29 CFR 1910.1200 HCS

Classification of the mixture:
GHS-US CLASSIFICATION Not Classified
Label Elements
OSHA HCS 2012 No signal word

Hazard Statements No known significant effects or critical hazards

Precautionary Statements No precautionary phrases

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

	%Weight
	100
1 Water (cas-no.) 7732-18-5 (GHS-US CLASSIFICATION) not classified	67.5
2 Urea (cas-no.) 57-13-6 (GHS-US CLASSIFICATION) not classified	32.5

SECTION 4: FIRST-AIDE MEASURES

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation : Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid measures after eye contact : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.
Most important symptoms and effects, both acute and delayed
Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Sand. Unsuitable extinguishing media : Do not use a heavy water stream.
Special hazards arising from the substance or mixture
No additional information available
Special protective equipment and precautions for fire-fighters
Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
General measures : The EPA has no established reportable quantity for spills for this material, secondary containment is not specified.
For non-emergency personnel
Emergency procedures : Evacuate unnecessary personnel.
For emergency responders
Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.
Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.
Methods and material for containment and cleaning up
Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. For minor spillages wash down with excess of water.
Mop up small spills.
Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.
Conditions for safe storage, including any incompatibilities
Storage conditions : Keep only in the original container in a cool, well ventilated place away from: Direct sunlight, Heat sources. Keep container closed when not in use.
Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.
Specific end use(s)
No additional information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters
No additional information available
Appropriate engineering controls
No additional information available
Individual protection measures/Personal protective equipment
Personal protective equipment: Avoid all unnecessary exposure. Gloves. Protective goggles.
Hand protection:
Wear protective gloves
Eye protection: Chemical goggles or safety glasses
Respiratory protection:
Wear appropriate mask

Other information: Do not eat, drink or smoke during use.

SECTION 9: PHYSICAL/CHEMICAL PROPERTIES

Information on basic physical and chemical properties
Physical state : Liquid
Color :
Colorless
Odor :
characteristic ammonia odor

Auto Ignition Temperature: >320˚C/608˚F

Upper/Lower Explosion/Flammability limits: 1-10 %V(based on Mineral Oil)

SECTION 10: REACTIVITY DATA

Reactivity
No additional information available
Chemical stability
Stable under normal conditions.
Possibility of hazardous reactions
Conditions to avoid
No additional information available
Incompatible materials
Strong acids. Strong bases. oxidizing agents (peroxides, chromates, dichromates).
Hazardous decomposition products
Carbon monoxide. Carbon dioxide. Fume.

SECTION 11: TOXICOLOGICAL INFORMATION

No Information on toxicological effects

Acute toxicity : Not classified

Carcinogenicity : Not classified

Specific target organ toxicity (repeated exposure)
: Not classified

Skin corrosion/irritation : Not classified pH: 9 – 10

Respiratory or skin sensitization : Not classified

Reproductive toxicity : Not classified

Aspiration hazard : Not classified

Serious eye damage/irritation : Not classified pH: 9 – 10

Germ cell mutagenicity : Not classified

Specific target organ toxicity (single exposure) : Not classified

Potential adverse human health effects and symptoms
: Based on available data, the classification criteria are not met.

urea (57-13-6)

LD50 oral rat 8,471.00 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)

LD50 dermal rat > 3,200.00 mg/kg (Rat; Literature study)

LD50 dermal rabbit > 21,000.00 mg/kg (Rabbit; Literature study)

ATE US (oral) 8,471.00 mg/kg bodyweight

SECTION 12: ECOLOGICAL INFORMATION

Toxicity
urea (57-13-6)
LC50 fish 1 > 6,810.00 mg/l (LC50; 96 h; Leuciscus idus; Static system)
EC50 Daphnia 1 > 10,000.00 mg/l (EC50; 48 h; Daphnia magna)
Threshold limit algae 1 > 10000 mg/l (EC0; 168 h; Scenedesmus quadricauda; Static system; Fresh water)
Persistence and degradability
Persistence and degradability Inherently biodegradable. Hydrolysis in water. Highly mobile in soil.
ThOD 0.27 g O2/g substance
Bio accumulative potential
BCF fish 1 1.00 (BCF; 72 h; Brachydanio rerio)
BCF other aquatic organisms 1 11,700.00 (BCF)
Log Pow < -1.73 (Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential Bioaccumulation: not applicable.
Mobility in soil
Mobility in soil Not applicable
Log Koc Koc,0.037-0.064; Experimental value
Other adverse effects
Effect on ozone layer : No additional information available
Effect on global warming : No known effects from this product.
No additional information available
Other information
: Avoid release to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Product/Packaging disposal recommendations : As a non-hazardous liquid waste, it should be solidified with stabilizing agents such as sand, fly ash, or clay absorbent, so that no free liquid remains before disposal to an industrial waste landfill.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

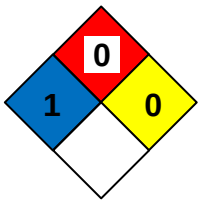
Department of Transportation (DOT)
In accordance with DOT
Not regulated
Transportation of Dangerous Goods
Refer to current TDG Canada for further Canadian regulations
ADR
Not regulated
Transport by sea
Not regulated
Air transport
Not regulated

SECTION 15: REGULATORY INFORMATION

US Federal regulations
Diesel Exhaust Fluid
EPA TSCA Regulatory Flag Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
CERCLA RQ None. This material is not classified as hazardous under U.S. EPA regulations.
SARA Section 302 Threshold Planning Quantity (TPQ) No extremely hazardous substances are in this product.
SARA Section 311/312 Hazard Classes Urea. No hazards resulting from the material as supplied.
urea (57-13-6)
EPA TSCA Regulatory Flag Toxic Substances Control Act (TSCA): The intentional ingredients of this product are listed
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard
water (7732-18-5)
Listed on the United States TSCA (Toxic Substances Control Act) inventory
International regulations
CANADA
Diesel Exhaust Fluid
WHMIS Classification This SDS has been prepared according to the criteria of the Hazardous Products Regulations
(HPR) (WHMIS 2015) and the SDS contains all of the information required by the HPR.
Applicable GHS information is listed in section 2.2 of this SDS.
Quality DEF Solutions
Diesel Safety Data Sheet
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
08/01/2020 EN (English) 8/9
EU-Regulations
No additional information available
National regulations
Diesel Exhaust Fluid
DSL (Canada): The intentional ingredients of this product are listed
urea (57-13-6)
DSL (Canada): The intentional ingredients of this product are listed
EINECS (Europe): The intentional ingredients of this product are listed
15.3. US State regulations
California Proposition 65 - This product does not contain any substance(s) known to the state of California to cause cancer,
developmental toxicity and/or reproductive toxicity

SECTION 16: OTHER INFORMATION

Revision date : 04/21/2017
NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.
NFPA fire hazard : 0 - Materials that will not burn under typical dire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
Health : 1 Slight Hazard - Irritation or minor reversible injury possible
Flammability : 0 Minimal Hazard - Materials that will not burn
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection B - Safety glasses, Gloves
SDS GHS US (GHS HazCom 2012) OWI
Old World Industries, LLC makes no warranty, representation or guarantee as to the accuracy, sufficiency or completeness of the material set forth herein. It is the user's responsibility to determine the safety, toxicity and suitability of his own use, handling and disposal of this product. Since actual use by others is beyond our control, no warranty, expressed or implied, is made by Old World Industries, LLC as to the effects of such use, the results to be obtained or the safety and toxicity of this product, nor does Old World Industries, LLC assume liability arising out of the use by others of this product referred to herein. The data in this SDS relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

While H&B Industries, Inc. believes this data is accurate as of revision date, we make no warranty with respect to the data and we expressly disclaim all liability for reliance there on. The data is offered solely for your information, investigation, and verification.