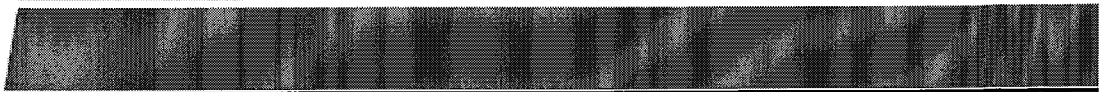




12/10/2018



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SDS

Common Name: BLUEDEF DIESEL EXHAUST FLUID
Manufacturer: OLD WORLD INDUSTRIES
SDS Revision Date: 7/15/2015
SDS Format: GHS-US

Peak Blue Def Diesel
Exhaust Fluid (55 Gal Drum)

Item Number(s): 48RH21, 48RH22, 48RH23, 48RH24

Manufacturer Model Number(s):

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BLUEDEF DIESEL EXHAUST FLUID

SAFETY DATA SHEET

ACCORDING TO FEDERAL REGISTER / VOL. 77, NO. 58 / MONDAY, MARCH 26, 2012 /
RULES AND REGULATIONS

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE



AND OF THE COMPANY/UNDERTAKING

1.1. PRODUCT IDENTIFIER:

PRODUCT FORM: MIXTURE

PRODUCT NAME: BLUEDEF DIESEL EXHAUST FLUID

1.2. RELEVANT IDENTIFIED USES OF THE SUBSTANCE OR MIXTURE AND USES ADVISED AGAINST:

USE OF THE SUBSTANCE/MIXTURE: SOLUTION FOR NOX REDUCTION IN SCR SYSTEMS

1.3. DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

OLD WORLD INDUSTRIES, LLC
4065 COMMERCIAL AVE.
NORTHBROOK, IL 60062
USA

T: (847) 559-2000

WWW.OLDWORLDIND.COM

1.4. EMERGENCY TELEPHONE NUMBER:

EMERGENCY NUMBER: (800) 424-9300; (703) 527 3887 (INTERNATIONAL) CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION



2.1. CLASSIFICATION OF THE SUBSTANCE OR MIXTURE:

GHS-US CLASSIFICATION: NOT CLASSIFIED

2.2. LABEL ELEMENTS:

GHS-US LABELING:

SIGNAL WORD (GHS-US): NONE

HAZARD STATEMENTS (GHS-US): NONE

PRECAUTIONARY STATEMENTS (GHS-US): NONE

2.3. OTHER HAZARDS: NO ADDITIONAL INFORMATION AVAILABLE

2.4. UNKNOWN ACUTE TOXICITY (GHS US): NO DATA AVAILABLE

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS



3.1. SUBSTANCE: NOT APPLICABLE

3.2. MIXTURE:

NAME	PRODUCT IDENTIFIER	% BY WT	GHS-US CLASSIFICATION
WATER	(CAS NO) 7732-18-5	67.5	NOT CLASSIFIED
UREA	(CAS NO) 57-13-6	32.5	NOT CLASSIFIED

SECTION 4: FIRST AID MEASURES



4.1. DESCRIPTION OF FIRST AID 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:

ALLOW VICTIM TO BREATHE FRESH AIR. 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 PERSIST.

FIRST-AID MEASURES AFTER INGESTION:

RINSE MOUTH. DO NOT INDUCE VOMITING. OBTAIN EMERGENCY MEDICAL ATTENTION.

4.2. MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

SYMPTOMS/INJURIES:

NOT EXPECTED TO PRESENT A SIGNIFICANT HAZARD UNDER ANTICIPATED CONDITIONS OF NORMAL USE.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: NO ADDITIONAL INFORMATION AVAILABLE

SECTION 5: FIREFIGHTING MEASURES



5.1. EXTINGUISHING MEDIA:

SUITABLE EXTINGUISHING MEDIA: FOAM. DRY POWDER. CARBON DIOXIDE. SAND.

UNSUITABLE EXTINGUISHING MEDIA: DO NOT USE A HEAVY WATER STREAM.

5.2. SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE:

NO ADDITIONAL INFORMATION AVAILABLE

5.3. ADVICE FOR FIREFIGHTERS:

FIREFIGHTING INSTRUCTIONS:

USE WATER SPRAY OR FOG FOR COOLING EXPOSED CONTAINERS. EXERCISE CAUTION WHEN FIGHTING ANY CHEMICAL FIRE. PREVENT FIRE-FIGHTING WATER FROM ENTERING ENVIRONMENT.

PROTECTION DURING FIREFIGHTING:

DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION.

SECTION 6: ACCIDENTAL RELEASE MEASURES



6.1. 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.

6.1.1. FOR NON-EMERGENCY PERSONNEL:

EMERGENCY PROCEDURES: EVACUATE UNNECESSARY PERSONNEL.

6.1.2. FOR EMERGENCY RESPONDERS:

PROTECTIVE EQUIPMENT: EQUIP CLEANUP CREW WITH PROPER PROTECTION.
EMERGENCY PROCEDURES: VENTILATE AREA.

6.2. ENVIRONMENTAL PRECAUTIONS:

PREVENT ENTRY TO SEWERS AND PUBLIC WATERS. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWERS OR PUBLIC WATERS.

6.3. 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.

6.4. REFERENCE TO OTHER SECTIONS:

SEE HEADING 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION.

SECTION 7: HANDLING AND STORAGE



7.1. 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.

7.2. 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.

7.3. SPECIFIC END USE(S): NO ADDITIONAL INFORMATION AVAILABLE

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1. CONTROL PARAMETERS: NO ADDITIONAL INFORMATION AVAILABLE

8.2. EXPOSURE CONTROLS:

PERSONAL PROTECTIVE EQUIPMENT:

AVOID ALL UNNECESSARY EXPOSURE. GLOVES. PROTECTIVE GOGGLES.

GLOVES

SAFETY GLASSES

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 AND CHEMICAL PROPERTIES



9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

COLOR: COLORLESS

ODOR: CHARACTERISTIC AMMONIA ODOR

ODOR THRESHOLD: NO DATA AVAILABLE

PH: 9 - 10

RELATIVE EVAPORATION RATE (BUTYL ACETATE=1): <1

FREEZING POINT: -11 DEG. C (12 DEG. F)

BOILING POINT: >100 DEG. C (212 DEG. F)

FLASH POINT: NO DATA AVAILABLE

AUTO-IGNITION TEMPERATURE: NO DATA AVAILABLE

DECOMPOSITION TEMPERATURE: NO DATA AVAILABLE

FLAMMABILITY (SOLID, GAS): NO DATA AVAILABLE

VAPOR PRESSURE: NOT APPLICABLE

RELATIVE VAPOR DENSITY AT 20 DEG. C: 0.6 H₂O, >1

SPECIFIC GRAVITY: 1.09

SOLUBILITY: SOLUBLE IN WATER.

WATER: 100%

LOG POW: NO DATA AVAILABLE

LOG KOW: NO DATA AVAILABLE

VISCOSITY, KINEMATIC: NO DATA AVAILABLE

VISCOSITY, DYNAMIC: NO DATA AVAILABLE

EXPLOSIVE PROPERTIES: NO DATA AVAILABLE

OXIDIZING PROPERTIES: NO DATA AVAILABLE

EXPLOSIVE LIMITS: NO DATA AVAILABLE

9.2. OTHER INFORMATION: NO ADDITIONAL INFORMATION AVAILABLE

SECTION 10: STABILITY AND REACTIVITY



10.1. REACTIVITY: NO ADDITIONAL INFORMATION AVAILABLE

10.2. CHEMICAL STABILITY: STABLE UNDER NORMAL CONDITIONS.

10.3. POSSIBILITY OF HAZARDOUS REACTIONS: NOT ESTABLISHED.

10.4. CONDITIONS TO AVOID: NO ADDITIONAL INFORMATION AVAILABLE

10.5. INCOMPATIBLE MATERIALS:
STRONG ACIDS. STRONG BASES. OXIDIZING AGENTS (PEROXIDES, CHROMATES,
DICHROMATES).

10.6. HAZARDOUS DECOMPOSITION PRODUCTS:
CARBON MONOXIDE. CARBON DIOXIDE. FUME.

SECTION 11: TOXICOLOGICAL INFORMATION



11.1. INFORMATION ON TOXICOLOGICAL EFFECTS:

ACUTE TOXICITY: NOT CLASSIFIED

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

SKIN CORROSION/IRRITATION: NOT CLASSIFIED

PH: 9 - 10

SERIOUS EYE DAMAGE/IRRITATION: NOT CLASSIFIED

PH: 9 - 10

RESPIRATORY OR SKIN SENSITIZATION: NOT CLASSIFIED

GERM CELL MUTAGENICITY: NOT CLASSIFIED

CARCINOGENICITY: NOT CLASSIFIED

REPRODUCTIVE TOXICITY: NOT CLASSIFIED

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): NOT CLASSIFIED

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): NOT CLASSIFIED

ASPIRATION HAZARD: NOT CLASSIFIED

POTENTIAL ADVERSE HUMAN HEALTH EFFECTS AND SYMPTOMS:

BASED ON AVAILABLE DATA, THE CLASSIFICATION CRITERIA ARE NOT MET.

SECTION 12: ECOLOGICAL INFORMATION



12.1. TOXICITY:

UREA (57-13-6):

LC50 FISH 1: >6,810.00 MG/L (96 H; LEUCISCUS IDUS; NOMINAL CONCENTRATION)

EC50 DAPHNIA 1:

>10,000.00 MG/L (48 H; DAPHNIA MAGNA; NOMINAL CONCENTRATION)

LC50 FISH 2: 17,500.00 MG/L (96 H; POECILIA RETICULATA)

EC50 DAPHNIA 2: >10,000.00 MG/L (24 H; DAPHNIA MAGNA)

TLM FISH 1: 17500 PPM (96 H; POECILIA RETICULATA)

THRESHOLD LIMIT OTHER AQUATIC ORGANISMS 1:
120000 MG/L (16 H; BACTERIA; TOXICITY TEST)

THRESHOLD LIMIT OTHER AQUATIC ORGANISMS 2: >10000 MG/L (PSEUDOMONAS PUTIDA)

THRESHOLD LIMIT ALGAE 1:
>10000 MG/L (168 H; SCENEDESMUS QUADRICAUDA; GROWTH RATE)

THRESHOLD LIMIT ALGAE 2:
47 MG/L (192 H; MICROCYSTIS AERUGINOSA; GROWTH RATE)

12.2. PERSISTENCE AND DEGRADABILITY:

UREA (57-13-6):

PERSISTENCE AND DEGRADABILITY:
INHERENTLY BIODEGRADABLE. HYDROLYSIS IN WATER. HIGHLY MOBILE IN SOIL.

THOD: 0.27 G O₂/G SUBSTANCE

12.3. BIOACCUMULATIVE POTENTIAL:

UREA (57-13-6):

BCF FISH 1: 1.00 (72 H; BRACHYDANIO RERIO; FRESH WATER)

BCF OTHER AQUATIC ORGANISMS 1: 11,700.00 (CHLORELLA SP.)

LOG POW: < -1.73 (EXPERIMENTAL VALUE; EU METHOD A.8: PARTITION COEFFICIENT)

BIOACCUMULATIVE POTENTIAL:
BIOACCUMULATION: NOT APPLICABLE.

12.4. MOBILITY IN SOIL:

UREA (57-13-6):

MOBILITY IN SOIL: NOT APPLICABLE

12.5. OTHER ADVERSE EFFECTS:

EFFECT ON OZONE LAYER: NO ADDITIONAL INFORMATION AVAILABLE

EFFECT ON GLOBAL WARMING:
NO KNOWN ECOLOGICAL DAMAGE CAUSED BY THIS PRODUCT.
NO ADDITIONAL INFORMATION AVAILABLE

OTHER INFORMATION: AVOID RELEASE TO THE ENVIRONMENT.

SECTION 13: DISPOSAL CONSIDERATIONS



13.1. WASTE TREATMENT METHODS:

WASTE 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



IN ACCORDANCE WITH DOT

NOT A DANGEROUS GOOD IN SENSE OF TRANSPORT REGULATIONS

OTHER INFORMATION: NOT REGULATED BY DOT.

ADR:

UN-NO. (ADR): NOT REGULATED BY ADR

TRANSPORT BY SEA:

UN-NO. (IMDG): NOT REGULATED BY IMDG

AIR TRANSPORT:

UN-NO. (IATA): NOT REGULATED BY IATA

SECTION 15: REGULATORY INFORMATION



15.1. US FEDERAL REGULATIONS:

BLUEDEF DIESEL EXHAUST FLUID:

EPA TSCA REGULATORY FLAG:

TOXIC SUBSTANCES CONTROL ACT (TSCA):

THE INTENTIONAL INGREDIENTS OF THIS PRODUCT ARE LISTED

RQ (REPORTABLE QUANTITY, SECTION 304 OF EPA'S LIST OF LISTS):

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

15.2. INTERNATIONAL REGULATIONS:

CANADA:

WHMIS CLASSIFICATION:
UNCONTROLLED PRODUCT ACCORDING TO WHMIS CLASSIFICATION CRITERIA

UREA (57-13-6):

WHMIS CLASSIFICATION:
UNCONTROLLED PRODUCT ACCORDING TO WHMIS CLASSIFICATION CRITERIA

EU-REGULATIONS: NO ADDITIONAL INFORMATION AVAILABLE

CLASSIFICATION ACCORDING TO REGULATION (EC) NO. 1272/2008 [CLP]:
NO ADDITIONAL INFORMATION AVAILABLE

CLASSIFICATION ACCORDING TO DIRECTIVE 67/548/EEC [DSD] OR 1999/45/EC [DPD]:
NOT CLASSIFIED

NATIONAL REGULATIONS:

BLUEDEF 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:

SECTION 16: OTHER INFORMATION



NFPA HEALTH HAZARD 1 - EXPOSURE COULD CAUSE IRRITATION BUT ONLY MINOR
RESIDUAL INJURY EVEN IF NO TREATMENT IS GIVEN.
NFPA FIRE HAZARD 0 - MATERIALS THAT WILL NOT BURN.
NFPA REACTIVITY 0 - NORMALLY STABLE, EVEN UNDER FIRE EXPOSURE
CONDITIONS, AND ARE NOT REACTIVE WITH WATER.

HMIS III 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.

07/15/2015

EN (ENGLISH)