

H2Blu Diesel Exhaust Fluid (DEF)

SECTION 1. IDENTIFICATION

Product Identifier	Diesel Exhaust Fluid (DEF)
Other Means of Identification	55-124AIR, 55-124C, 55-125AIR, 55-125BTG, 55-125H2B, 55-125MER, 55-126AIR, 55-126C, 55-126MER, 55-126STPDES, 55-129AIR, 55-129AIR-1000, 55-129AIR-1250, 55-129AIR-RPV, 55-129H2B, 55-129H2B-1000, 55-129H2B-1000T, 55-129H2B-RPV, 55-129H2B-RPV-T, 55-129H2B-R-R-RET, 55-129H2B-RSV, 55-129H2B-RSV-T, 55-129H2B-T, □ 55-129OLD-1000, 55-129OPW-1250, BULK-DEF, 55-125VW, 55-125FORD, 55-125BTGEXP, □ 55-125CHN, 55-125GM, 55-129FLT, 55-129CHN, 55-129FLT-1000, 55-125FLT, 55-129CHN-1000, 55-129IBP, 55-129IBP-1250, 55-126IBP, 55-129RC, 55-129BLU, 55-129BLU-1000, 55-129RC-1000, 55-125RC, 55-129TRP-1000, 55-125C, 55-125TRP, 55-125, 55-125BLU, 55-125CNH, 55-126, 55-126BLU, 55-126IBP, 55-129AIR-R, 55-129CNH-1000, 55-129IBP, 55-129IBP-1250, 55-129OLD-1250, 55-129OWCB-1250, 55-125TUX, 55-129TRP, 55-125RK, 55-125h2b-tray, 55-126H2BH96, 55-126TRP, 55-126VW, □ 55-126BTGX80, 55-126DYNX96, 55-126CNH, 55-126FLT, 55-126FORD, 55-126RC, 55-126GM, 55-126H2B, 55-126BTG, 55-126DYN, 55-125AIRX48, 55-124H2BH52, 55-126H2BX96, 55-126CHN
Recommended Use	Please refer to Product label.
Restrictions on Use	None known.
Manufacturer/Supplier Identifier	KOST USA, Inc, 1000 Tennessee Avenue, Cincinnati, OH 45229 USA Telephone: 800-661 9361, www.kostusa.com
Other Contact Information	Yara North America Inc., The following product codes are packaged by Recochem Inc. in □ Canada for Yara North America Inc: 55-124AIR, 55-125AIR, 55-126AIR, 55-129AIR, 55-129AIR-1000, 55-129AIR-1250, 55-129AIR-RPV, 55-129AIR-R - 100 North Tampa St. □ Suite 3200, Tampa, Florida, 33602, United States, 1-877-810-4333, www.air1def.com
Emergency Phone No.	CANUTEC, 613-996-6666, 24 Hours
SDS No.	1519

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 3; Eye irritation - Category 2B; Specific target organ toxicity (single exposure) - Category 3

Label Elements



Signal Word:
Warning

Hazard Statement(s):

H316 Causes mild skin irritation.
H320 Causes eye irritation.

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1
Date of Preparation: June 09, 2017
Date of Last Revision: January 21, 2020

SDS No.: 1519

Page 01 of 08

H335 May cause respiratory irritation.

Precautionary Statement(s):

Prevention:

- P261 Avoid breathing fume, mist, vapours, spray.
- P264 Wash hands thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.

Response:

- P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 Call a POISON CENTRE or doctor if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P312 Call a POISON CENTRE or doctor if you feel unwell.
- P337 + P313 If eye irritation persists: Get medical advice/attention.
- P332 + P313 If skin irritation occurs: Get medical advice/attention.

Storage:

Store in a well ventilated place. Keep cool. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/container in accordance with applicable regional, national and local laws and regulations.

Other Hazards

Not applicable.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Urea	57-13-6	15-40		
Free Ammonia	7664-41-7	0.1-1		

Notes

Use of Generic SDS:

If the concentration or actual concentration range of an ingredient of a particular hazardous product in the series is different from the concentration or actual concentration range disclosed for the rest of the series, either the concentration or the actual concentration range must be indicated beside that ingredient under item 3 (Composition/Information on ingredients) of the SDS. Furthermore, if any other specific information element(s) (such as flash point, numerical measure of toxicity, etc.) for a particular hazardous product in the series differs from that of the other products in the series (without affecting the classification), the information element relevant to that hazardous product must be disclosed on the SDS with an indication to which hazardous product each relates.

Source: Health Canada - Technical Guidance on the Requirements of the Hazardous Products Act and the Hazardous Products Regulations WHMIS 2015 Supplier Requirements - pg 117

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Remove source of exposure or move to fresh air. Call a Poison Centre or doctor if you feel unwell.

Skin Contact

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 02 of 08

Avoid direct contact. Wear chemical protective clothing if necessary. Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Quickly and gently blot or brush away excess chemical. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If skin irritation occurs, get medical advice or attention. Get medical advice or attention if you feel unwell or are concerned. Clean clothing, shoes and leather goods.

Eye Contact

Avoid direct contact. Wear chemical protective gloves if necessary. Quickly and gently blot or brush chemical off the face. Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists, get medical advice or attention.

Ingestion

Rinse mouth with water. Get medical advice or attention if you feel unwell or are concerned.

First-aid Comments

Get medical advice or attention if you feel unwell or are concerned.

Most Important Symptoms and Effects, Acute and Delayed

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Immediate Medical Attention and Special Treatment

Target Organs

Eyes, respiratory system, skin.

Special Instructions

No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Medical Conditions Aggravated by Exposure

Dermatitis.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire.

Unsuitable Extinguishing Media

None known.

Specific Hazards Arising from the Product

Does not burn. This product presents no unusual hazards in a fire situation. Closed containers may rupture violently when heated releasing contents.

In a fire, the following hazardous materials may be generated: very toxic carbon monoxide, carbon dioxide; corrosive, oxidizing nitrogen oxides.

Special Protective Equipment and Precautions for Fire-fighters

Review Section 6 (Accidental Release Measures) for important information on responding to leaks/spills.

See Skin Protection in Section 8 (Exposure Controls/Personal Protection) for advice on suitable chemical protective materials.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

No special precautions are necessary. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 03 of 08

Methods and Materials for Containment and Cleaning Up

Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Prevent skin contact. Do not get in eyes. Do not swallow. Avoid generating vapours or mists.

Conditions for Safe Storage

Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Not available.

Appropriate Engineering Controls

The hazard potential of this product is relatively low. General ventilation is usually adequate. For large scale use of this product: use local exhaust ventilation, if general ventilation is not adequate to control amount in the air.

Individual Protection Measures

Eye/Face Protection

Not required but it is good practice to wear safety glasses or chemical safety goggles.

Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.
Suitable materials are: nitrile rubber.

Respiratory Protection

Not normally required if product is used as directed.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	Clear liquid.
Odour	Ammonia-like
Odour Threshold	Not available
pH	9 - 10 (100% solution)
Melting Point/Freezing Point	-11.5 °C (11.3 °F) (melting); -11.5 °C (11.3 °F) (freezing)
Initial Boiling Point/Range	100 °C (212 °F)
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 04 of 08

Relative Density (water = 1)	1
Solubility	Very soluble (more than 50 g/100 mL) in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	1.4 mm ² /s at 20 °C (kinematic); 1.4 mPa.s at 20 °C (dynamic)
Other Information	
Physical State	Liquid
Molecular Weight	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity

None known.

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

None known.

Conditions to Avoid

Contamination. High temperatures. Water, moisture or humidity. Temperatures above 135.0 °C (275.0 °F)

Incompatible Materials

Reacts explosively with: strong oxidizing agents (e.g. perchloric acid).

Not corrosive to metals.

Hazardous Decomposition Products

None known.

SECTION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Inhalation; skin contact; eye contact.

Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Urea		8471 mg/kg (rat)	> 21000 mg/kg (rabbit)
Free Ammonia	2000 ppm (rat) (4-hour exposure)	Not applicable	Not applicable

LC50: Not applicable.

LD50 (oral): Not applicable.

LD50 (dermal): Not applicable.

Skin Corrosion/Irritation

Human experience shows very mild irritation.

Serious Eye Damage/Irritation

Human experience shows very mild irritation.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May be harmful At high concentrations based on human experience. Nose and throat irritation.

Skin Absorption

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 05 of 08

Not harmful based on human experience.

Ingestion

Not harmful based on animal tests.

Aspiration Hazard

Not known to be an aspiration hazard.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause Following skin contact: dermatitis.

May cause If inhaled: at high concentrations irritation of the respiratory system. May cause respiratory tract injury.

Respiratory and/or Skin Sensitization

No information was located. No information was located.

Carcinogenicity

Chemical Name	IARC	ACGIH®	NTP	OSHA
Urea	Not Listed	Not designated	Not Listed	Not Listed
Free Ammonia	Not Listed	Not designated	Not Listed	Not Listed

Not a carcinogen.

Reproductive Toxicity

Development of Offspring

Does not cause harm to the unborn child.

Sexual Function and Fertility

Does not cause effects on sexual function or fertility.

Effects on or via Lactation

No information was located.

Germ Cell Mutagenicity

Not mutagenic.

Interactive Effects

No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Acute Aquatic Toxicity

Chemical Name	LC50 Fish	EC50 Crustacea	ErC50 Aquatic Plants	ErC50 Algae
Urea	Not available	Not available		
Free Ammonia	Not available	Not available		

Chronic Aquatic Toxicity

Chemical Name	NOEC Fish	EC50 Fish	NOEC Crustacea	EC50 Crustacea
Urea	Not available		Not available	
Free Ammonia	Not available		Not available	

Persistence and Degradability

No information was located.

Bioaccumulative Potential

No information was located.

Mobility in Soil

No information was located.

Other Adverse Effects

There is no information available.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations. Not regulated under US DOT Regulations.

Environmental Hazards Not applicable

Special Precautions Not applicable

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Proof of Dangerous Goods Classification

Date of Classification January 09, 2017

Classification Not Regulated

SECTION 15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations

Canada

Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

USA

Toxic Substances Control Act (TSCA) Section 8(b)

All ingredients are listed on the TSCA Inventory.

Custom Regulatory 1

Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

SECTION 16. OTHER INFORMATION

SDS Prepared By Compliance and Regulatory Department

Phone No. 905-878-5544

Date of Preparation June 09, 2017

Date of Last Revision January 21, 2020

Revision Indicators The following SDS content was changed on January 16, 2018:
SECTION 1. IDENTIFICATION; Other Means of Identification.

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 07 of 08

The following SDS content was changed on August 01, 2019:
SECTION 1. IDENTIFICATION; Other Contact Information;
SECTION 7. HANDLING AND STORAGE; Precautions for Safe Handling.

The following SDS content was changed on January 21, 2020:
SECTION 1. IDENTIFICATION; Other Means of Identification.

The following SDS content was changed on January 31, 2020:
SECTION 1. IDENTIFICATION; Other Means of Identification.

References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS).

Additional Information

We are committed to uphold the Industry Consumer Ingredient Communication Voluntary Initiative.

Please send us your request by visiting our website at www.recochem.com.

Ingredients present (intentionally added ingredients) at a concentration of greater than one percent (1%) shall be listed in descending order of predominance. Ingredients present at a concentration of not more than one percent shall be listed but may be disclosed without respect to order of predominance.

Disclaimer

Notice to reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Product Identifier: Diesel Exhaust Fluid (DEF) - Ver. 1

SDS No.: 1519

Date of Preparation: June 09, 2017

Date of Last Revision: January 21, 2020

Page 08 of 08