

# **Product Information Sheet**

Air1® Diesel Exhaust Fluid

NOTE: THIS IS NOT A MATERIAL SAFETY DATA SHEET SINCE NONE IS REQUIRED FOR THIS PRODUCT. IT IS PROVIDED FOR EMPLOYEE INFORMATION ONLY.

### Section 1. Chemical product and company identification

Trade name : Air1® Diesel Exhaust Fluid

Manufacturer : Yara North America, Inc 100 North Tampa Street

> Suite 3200 P.O. Box 24926 Tampa, FL 33623

USA

Tel: +1 813 222 5700 Fax: +1 813 875 5735

Validation date : 2010-08-16.

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Responsible name : Bill Easterwood

In case of emergency : Additional Product Information: 813-222-5700

or Chemtrec 24-hours Emergency Resonse: 1-800-424-9300

### Section 2. Hazards identification

Physical state : Liquid. [Clear.]

**Emergency overview**: MOT EXPECTED TO PRODUCE SIGNIFICANT ADVERSE HEALTH EFFECTS WHEN

THE RECOMMENDED INSTRUCTIONS FOR USE ARE FOLLOWED.

#### Potential acute health effects

Eyes : No known significant effects or critical hazards.Skin : No known significant effects or critical hazards.

Inhalation : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

Ingestion : No known significant effects or critical hazards.

#### Potential chronic health effects

Chronic effects
 Carcinogenic effects
 No known significant effects or critical hazards.
 Mutagenic effects
 No known significant effects or critical hazards.
 Teratogenicity
 No known significant effects or critical hazards.
 Developmental effects
 No known significant effects or critical hazards.
 Fertility effects
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Inhalation: No specific data.Ingestion: No specific data.Skin: No specific data.Eyes: No specific data.

See toxicological information (section 11)

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# Section 3. Composition/information on ingredients

**CAS** number % by weight Name Urea 57-13-6 32.5 7732-18-5 Water 67.5

### Section 4. First aid measures

**Eye contact** 

: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms occur.

Skin contact

: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if symptoms occur.

Inhalation

: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms occur.

Ingestion

: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

**Protection of first-aiders** 

: No action shall be taken involving any personal risk or without suitable training.

Notes to physician

: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

### Section 5. Fire-fighting measures

Flammability of the product

: Non-flammable.

**Extinguishing media** 

**Suitable** 

: Use an extinguishing agent suitable for the surrounding fire.

**Products of combustion** 

: These products are carbon dioxide carbon monoxide nitrogen oxides Ammonia.

Fire-fighting media and instructions

: In case of fire, use water spray (fog), foam, dry chemical or CO<sub>2</sub>.

**Special protective** equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

**Personal precautions** 

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment (see section 8).

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods for cleaning up

**Small spill** 

: Stop leak if without risk. Material free from contamination can be used for its original purpose. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. 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). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### Section 7. Handling and storage

#### **Handling**

: Kvoid contact with eyes, skin and clothing. Ensure eyewash facilities are located close to the working environment.

**Storage** 

: Keep container tightly closed. Keep container in a cool, well-ventilated area. Keep away from heat and direct sunlight.

### Section 8. Exposure controls/personal protection

#### **Engineering measures**

: No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

#### **Hygiene measures**

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure eyewash facilities are located close to the working environment.

#### **Personal protection**

**Eyes** 

Skin

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Recommended: Chemical splash goggles or face shield.

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

Respiratory

: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: If ventilation is inadequate, use respirator that will protect against dust/mist.

**Hands** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. >8 hours (breakthrough time): butyl rubber, natural rubber (latex), nitrile rubber

Personal protective equipment (Pictograms)





#### **Product name**

**V**rea

#### Exposure limits

AIHA WEEL (United States, 1/2009).

TWA: 10 mg/m<sup>3</sup> 8 hour(s).

### Section 9. Physical and chemical properties

**Physical state** 

: Liquid. [Clear.]

Color

: Colorless.

Odor

: Ammoniacal. [Slight]

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/ trimomadai. [ongm]

**Boiling/condensation point** 

: 9,8 to 10 [Conc. (% w/w): 10%]

3

: Decomposition temperature: 100°C (212°F)

**Melting/freezing point** 

: -11,5°C (11,3°F)

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: 1,09 g/cm<sup>3</sup> [20°C (68°F)] Density (g/cm³) Vapor pressure : 6.4 kPa (48 mm Hg) (at 40°C)

VOC : 32,5 % (w/w)

Miscible in water. Yes.

### Section 10. Stability and reactivity

Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Possibility of hazardous reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

**Incompatibility with various** substances

: Highly reactive or incompatible with the following materials: oxidizing materials, acids

and alkalis.

**Hazardous decomposition** 

: Under normal conditions of storage and use, hazardous decomposition products should

not be produced.

**Hazardous polymerization** 

products

: Under normal conditions of storage and use, hazardous polymerization will not occur.

# Section 11. Toxicological information

#### Potential acute health effects

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may

be delayed following exposure.

: No known significant effects or critical hazards. Ingestion : No known significant effects or critical hazards. **Skin contact**  No known significant effects or critical hazards. **Eve contact** 

Product/ingredient name

Result **Species Dose Exposure U**rea LD50 Rat >5 g/kg

Intraperitoneal

LD50 Rat 567 mg/kg

Intratracheal

5300 mg/kg LD50 Intravenous Rat LD50 Oral Mouse 11 g/kg LD50 Oral 8471 mg/kg Rat LD50 Rat 8200 mg/kg

Subcutaneous

**TDLo Oral** Rat 750 mg/kg

### Section 12. Ecological information

: Readily biodegradable **Environmental effects** 

Aquatic ecotoxicity

Product/ingredient name **Test** Result **Species Exposure** 

**V**rea Acute EC50 Daphnia - Water 48 hours

3910000 ug/L flea - Daphnia Fresh water magna - Neonate

- <24 hours

Acute LC50 Crustaceans -48 hours

> >1000 mg/LAmphipod -Marine water Chaetogammarus

marinus - Young -

5 mm

Fish - Rohu -Acute LC50 96 hours

> 16700 to 19600 Labeo rohita -

ug/L Fresh water Egg

Conclusion/Summary : Not available.

**Biodegradability** 

**Conclusion/Summary** : The product does not show any bioaccumulation phenomena.

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### Section 13. Disposal considerations

**Waste disposal** 

: 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 byproducts 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.

Consult your local or regional authorities.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### **Section 14. Transport information**

Regulatory information	UN number	Proper shipping name	Class	Packing group	Additional information
<b>DOT Classification</b>	Not regulated.	-	-	-	-
TDG Classification	Not regulated.	-	-	-	-
Mexico Classification	Not regulated.	-	-	-	-

## Section 15. Regulatory information

**HCS Classification** 

U.S. Federal regulations

: Not regulated.

: United States inventory (TSCA 8b): All components are listed or exempted.

SARA 302/304/311/312 extremely hazardous substances: No products were found. SARA 302/304 emergency planning and notification: No products were found.

SARA 302/304/311/312 hazardous chemicals: Urea

SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Urea:

Immediate (acute) health hazard, Delayed (chronic) health hazard

Clean Water Act (CWA) 307: No products were found. Clean Water Act (CWA) 311: No products were found.

Clean Air Act (CAA) 112 accidental release prevention: No products were found.

Clean Air Act (CAA) 112 regulated flammable substances: No products were found.

Clean Air Act Section 112(b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

**Clean Air Act Section 602** 

Class II Substances

: Not listed

DEA List I Chemicals (Precursor Chemicals)

: Not listed

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

Clean Air Act (CAA) 112 regulated toxic substances No products were found.

#### State regulations

: Connecticut Carcinogen Reporting: None of the components are listed.

**Connecticut Hazardous Material Survey**: None of the components are listed.

Florida substances: None of the components are listed.

Illinois Chemical Safety Act: None of the components are listed.

Illinois Toxic Substances Disclosure to Employee Act: None of the components are

listed.

Louisiana Reporting: None of the components are listed. Louisiana Spill: None of the components are listed. Massachusetts Spill: None of the components are listed.

**Massachusetts Substances**: None of the components are listed. **Michigan Critical Material**: None of the components are listed.

**Minnesota Hazardous Substances**: None of the components are listed. **New Jersey Hazardous Substances**: None of the components are listed.

New Jersey Spill: None of the components are listed.

New Jersey Toxic Catastrophe Prevention Act: None of the components are listed. New York Acutely Hazardous Substances: None of the components are listed. New York Toxic Chemical Release Reporting: None of the components are listed. Pennsylvania RTK Hazardous Substances: None of the components are listed. Rhode Island Hazardous Substances: None of the components are listed.

United States inventory (TSCA 8b)

: All components are listed or exempted.

### Section 16. Other information

National Fire Protection Association (U.S.A.)

Health 0 0 Instability
Special

References : Regulation (EC) No 1272/2008 Annex VI

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education,

and Welfare, Reports and Memoranda

Registry of Toxic Effects of Chemical Substances

Atrion International Inc. 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada

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▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

To the best of our knowledge, the information provided in this Product Information Sheet is accurate as at the date of its issue. The information it contains is being given for safety guidance purposes and relates only to the specific material and uses described in it. This information does not necessarily apply to that material when combined with other material(s) or when used otherwise than as described herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may represent unknown hazards and should be used with caution. Yara International ASA disclaims any liability for loss or damage resulting from the use of any data, information or recommendations set out in this Product Information Sheet.

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