

Conforms: GHS (rev 4) (2011)

(This Safety Data Sheet conforms to the requirements of the Hazard Communication Standard (HCS) (29 CFR 1910.1200(g)), revised in 2012.) - United States

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# SAFETY DATA SHEET

## Air1 Diesel Exhaust Fluid

### Section 1. Identification

Product identifier : Air1 Diesel Exhaust Fluid  
Product type : Liquid  
Product code : PA5167

#### Uses

Area of application : Industrial applications

#### Supplier

Supplier's details : Yara North America, Inc.

#### Address

Street : 100 North Tampa Street, Suite 3200  
Postal code : 33602  
City : TAMPA  
Country : United States

Telephone number : +1 813 222 5700  
Fax no. : +1 813 875 5735  
e-mail address of person responsible for this SDS : yna-hesq@yara.com

Emergency telephone number (with hours of operation) : US: Chemtrec 24-hours Emergency Response: 1-800-424-9300  
Canada: 24 Hour Emergency Service, (Canutec 613-996-6666)

#### National advisory body/Poison Center

Name : The National Poisons Emergency number  
Telephone number : 1 800 222 1222

### Section 2. Hazards identification

OSHA/HCS status : This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

#### Classification and labelling have been performed following the guidelines and recommendation of GHS and the intended use.

Classification of the substance or mixture. : Not classified.

#### GHS label elements

Signal word : No signal word.

**Hazard statements** : Not applicable.

**Precautionary statements**

**General** : Not applicable.

**Hazards not otherwise classified** : None.

### Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

**Remark** : Aqueous solution

### Section 4. First aid measures

**Description of necessary first aid measures**

- Eye contact** : Rinse with plenty of running water. Check for and remove any contact lenses. Get medical attention if irritation occurs.
- Inhalation** : Avoid inhalation of vapor, spray or mist. If inhaled, remove to fresh air. Get medical attention if you feel unwell.
- Skin contact** : Wash with soap and water. Get medical attention if irritation develops.
- Ingestion** : Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Get medical attention if adverse health effects persist or are severe.

**Most important symptoms/effects, acute and delayed**

**Potential acute health effects**

- Eye contact** : No known significant effects or critical hazards.
- Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

- Eye contact** : No specific data.
- Inhalation** : No specific data.
- Skin contact** : No specific data.
- Ingestion** : No specific data.

**Indication of immediate medical attention and special treatment needed, if necessary**

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled. 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.

**Specific treatments** : No specific treatment.

## Section 5. Firefighting measures

### Extinguishing media

**Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media** : None identified.

**Specific hazards arising from the chemical** : In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
ammonia  
Avoid breathing dusts, vapors or fumes from burning materials.  
In case of inhalation of decomposition products in a fire, symptoms may be delayed.

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**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.

**Remark** : Non-flammable.

**Remark** : None.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel** : 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.

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**- 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 and material for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Dilute

- Large spill**
- : with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
  - : 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

### Precautions for safe handling

- Protective measures**
- : Put on appropriate personal protective equipment (see Section 8).
- Advice on general occupational hygiene**
- : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
- Conditions for safe storage, including any incompatibilities**
- : Store in accordance with local regulations. 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. 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. Bund storage facilities to prevent soil and water pollution in the event of spillage.

## Section 8. Exposure controls/personal protection

### Control parameters

- Occupational exposure limits**
- : None.
- Appropriate engineering controls**
- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- Environmental exposure controls**
- : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

**Individual protection measures**

- 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. Wash contaminated clothing before reusing. A washing facility or water for eye and skin cleaning purposes should be present.
- Eye/face protection** : 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, gases or dusts.
- Skin protection**
- Hand protection** : 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.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : 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.
- Personal protective equipment (Pictograms)** :

**Section 9. Physical and chemical properties****Appearance**

- Physical state** : Liquid
- Color** : Colorless.
- Odor** : slight, ammoniacal
- Odor threshold** : Not determined.
- pH** : 9 - 10

**Melting/freezing point** : **-10.5 °C (-10.5 °C)**

**Boiling/condensation point** : 100 °C  
(100 °C)

**Sublimation temperature** : Not determined.

**Flash point** : Not applicable

**Evaporation rate** : Not determined.

**Flammability (solid, gas)** : Non-flammable.

**Lower and upper explosive (flammable) limits** : **Lower:** Not determined.  
**Upper:** Not determined.

Vapor pressure	: Not determined.
Density	: 1.088 g/cm <sup>3</sup>
Relative density	: Not determined.
Solubility	: Not determined.
Solubility in water	: > 100 g/l
Partition coefficient: n-octanol/water	: Not determined.
Auto-ignition temperature	: Not determined.
Decomposition temperature	: Not determined.
Viscosity	: <b>Dynamic:</b> 1.4 mPa.s @ 20 °C (20 °C)
	: <b>Kinematic:</b> Not determined.
Explosive properties	: None.
Oxidizing properties	: None.

## Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid contamination by any source including metals, dust and organic materials.
Incompatible materials	: Urea reacts with calcium hypochlorite or sodium hypochlorite to form the explosive nitrogen trichloride.
Remark	: Reactive or incompatible with the following materials: Oxidizing agents acids alkalis Nitrites and nitrates
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

**Conclusion/Summary** : No known significant effects or critical hazards.

#### Irritation/Corrosion

#### **Conclusion/Summary**

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

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

**Respiratory** : No known significant effects or critical hazards.

#### **Sensitization**

##### **Conclusion/Summary**

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

**Respiratory** : No known significant effects or critical hazards.

#### **Mutagenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

#### **Carcinogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

#### **Reproductive toxicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

#### **Teratogenicity**

**Conclusion/Summary** : No known significant effects or critical hazards.

#### **Specific target organ toxicity (single exposure)**

No known significant effects or critical hazards.

#### **Specific target organ toxicity (repeated exposure)**

No known significant effects or critical hazards.

#### **Aspiration hazard**

No known significant effects or critical hazards.

**Information on likely routes of exposure** : Not available.

#### **Potential acute health effects**

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

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

**Ingestion** : No known significant effects or critical hazards.

#### **Symptoms related to the physical, chemical and toxicological characteristics**

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

Ingestion : No specific data.

### **Delayed and immediate effects as well as chronic effects from short and long-term exposure**

#### **Short term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

#### **Long term exposure**

Potential immediate effects : Not available.

Potential delayed effects : Not available.

### **Potential chronic health effects**

Conclusion/Summary : No known significant effects or critical hazards.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : 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.

### **Over-exposure signs/symptoms**

Eye contact : No specific data.

Inhalation : No specific data.

Skin contact : No specific data.

Ingestion : No specific data.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Not available.

## **Section 12. Ecological information**

### **Toxicity**

Conclusion/Summary : No known significant effects or critical hazards.

### **Persistence and degradability**

Conclusion/Summary : No known significant effects or critical hazards.

### **Bioaccumulative potential**

Conclusion/Summary : No known significant effects or critical hazards.

### **Mobility in soil**

Soil/water partition coefficient (KOC) : Not available.

Mobility : This product may move with surface or groundwater flows



**Other adverse effects** : because its water solubility is: high  
: No known significant effects or critical hazards.

## Section 13. Disposal considerations

### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

Regulation: UN Class	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
<b>Additional information</b>	
<u>Environmental hazards</u>	: No.

Regulation: IMDG	
14.1 UN number	Not regulated.
14.2 UN proper shipping name	Not applicable.
14.3 Transport hazard class(es)	Not applicable.
14.4 Packing group	Not applicable.
14.5 Environmental hazards	No.
<b>Additional information</b>	
<u>Marine pollutant</u>	: Not available.

Regulation: IATA	
14.1 UN number	Not regulated.

<b>14.2 UN proper shipping name</b>	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.
<b>14.4 Packing group</b>	Not applicable.
<b>14.5 Environmental hazards</b>	No.
<b>Additional information</b>	
<b><u>Marine pollutant</u></b>	: No.

<b>Regulation: DOT Classification</b>	
<b>14.1 UN number</b>	Not regulated.
<b>14.2 UN proper shipping name</b>	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.
<b>14.4 Packing group</b>	Not applicable.
<b>14.5 Environmental hazards</b>	No.
<b>Additional information</b>	
<b><u>Marine pollutant</u></b>	: Not available.

<b>Regulation: TDG Class</b>	
<b>14.1 UN number</b>	Not regulated.
<b>14.2 UN proper shipping name</b>	Not applicable.
<b>14.3 Transport hazard class(es)</b>	Not applicable.
<b>14.4 Packing group</b>	Not applicable.
<b>14.5 Environmental hazards</b>	No.
<b>Additional information</b>	
Not applicable.	
<b><u>Environmental hazards</u></b>	: No.

**14.6 Special precautions for user** : Transport within user's premises: Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**IMSBC** : Not applicable.

**Transport in bulk according to Annex II of MARPOL and the IBC Code**

**Proper shipping name** : Urea solution  
**Ship type** : 3  
**Pollution category** : Z

## **Section 15. Regulatory information**

**United States**

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined  
**United States - EPA Clean water act (CWA) section 311 - Hazardous substances:** Ammonia;

**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

**SARA 302/304****Composition/information on ingredients**

Name	%	EHS	SARA 302/304
Ammonia	0	Yes.	<b>SARA 302 TPQ:</b> 500 lb(s) <b>SARA 304 RQ:</b> 100 lb(s)

**SARA 304 RQ** : 111111.1 lbs

**SARA 311/312**

**Classification** : Not applicable.

**Composition/information on ingredients**

No products were found.

**State regulations**

**Massachusetts** : None of the components are listed.  
**New York** : None of the components are listed.  
**New Jersey** : None of the components are listed.  
**Pennsylvania** : None of the components are listed.

**California Prop. 65**

This product contains a chemical (or chemicals) known to the State of California to cause cancer and birth defects or other reproductive harm.

**References** : EU REACH IUCLID5 CSR.  
 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.  
 Sphera Solutions Inc., 4777 Levy Street, St Laurent,  
 Quebec HAR 2P9, Canada.

**Inventory list**

**New Zealand Inventory of Chemicals (NZIoC):** All components are listed or exempted.

**Korea inventory:** All components are listed or exempted.

**China inventory (IECSC):** All components are listed or exempted.

**Australia inventory (AICS):** All components are listed or exempted.

**Canada inventory (DSL and NDSL):** All components are listed or exempted.

**Taiwan Chemical Substances Inventory (TCSI):** All components are listed or exempted.

**Taiwan Chemical Substances Inventory (TCSI):** All components are listed or exempted.

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

**EC INVENTORY (EINECS/ELINCS):** All components are listed or exempted.

**Canada:** All components are listed or exempted.

## Section 16. Other information

### Hazardous Material Information System (U.S.A.)

<b>Health</b>	-	0
<b>Flammability</b>		0
<b>Physical hazards</b>		0

**Caution:** HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

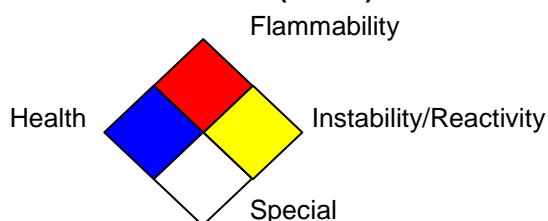
The customer is responsible for determining the PPE code for this material.

### Chronic toxicity:

- : No data available.

\* : Carcinogen, Target organs, Reproductive effects, Sensitizer to lungs

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



### Procedure used to derive the classification

Classification	Justification
Not classified.	Calculation method

### History

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**Prepared by** : Yara Chemical Compliance (YCC).  
**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
UN = United Nations

**References**

- : EU REACH IUCLID5 CSR.
- 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.
- Sphera Solutions Inc., 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.

|| Indicates information that has changed from previously issued version.

**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.**