

1. Product and Company Identification

Product Name	Airx 66
CAS #	Mixture
Product Use	All purpose cleaner
Manufacturer	W.E. Greer Ltd. 14704 - 119 Avenue Edmonton, AB T5L 2P1 CA Phone (780) 451-1516 Fax (780) 451-0334
CANUTEC	1-613-996-6666

2. Hazards Identification

Emergency Overview	CAUTION Contains a potential reproductive toxin. MAY CAUSE ALLERGIC SKIN REACTION. MAY CAUSE SKIN IRRITATION. MAY CAUSE EYE IRRITATION. MAY CAUSE RESPIRATORY TRACT IRRITATION.
Potential short term health effects	
Routes of exposure	Eye, Skin contact, Skin absorption, Inhalation, Ingestion.
Eyes	May cause irritation.
Skin	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Skin. Eyes.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, oedema, drying, defatting and cracking of the skin. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Potential environmental effects	See section 12.

3. Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent
Sodium borate	1330-43-4	0.1 - 1
Ethanol	64-17-5	0.1 - 1
Tetrasodium ethylenediamine tetraacetate	64-02-8	1 - 5
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	68424-85-1	1 - 5
d-Limonene	5989-27-5	1 - 5
Alcohols, C12-16, ethoxylated	68551-12-2	3 - 7

4. First Aid Measures

First aid procedures	
Eye contact	Flush with cool water. Remove contact lenses, if applicable, and continue flushing. Obtain medical attention if irritation persists.
Skin contact	Flush with cool water. Wash with soap and water. Obtain medical attention if irritation persists.
Inhalation	If symptoms develop move victim to fresh air. If symptoms persist, obtain medical attention.
Ingestion	Do not induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.
Notes to physician	Symptoms may be delayed.

General advice

If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes and skin. Keep out of reach of children.

5. Fire-fighting Measures

Flammable properties	Not flammable by WHMIS criteria.
Extinguishing media	
Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	Not available
Protection of firefighters	
Specific hazards arising from the chemical	Not available
Protective equipment for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus.
Hazardous combustion products	May include and are not limited to: Hydrogen chloride. Oxides of nitrogen. Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

6. Accidental Release Measures

Personal precautions	Keep unnecessary personnel away. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.
Methods for containment	Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas.
Methods for cleaning up	Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering sewers or waterways. Contact emergency services and supplier for advice. Never return spills in original containers for re-use.

7. Handling and Storage

Handling	Avoid prolonged or repeated skin contact with this material. Wash thoroughly after handling. When using do not eat or drink. Avoid contact with eyes. Avoid breathing vapours or mists of this product. Keep container tightly closed. Use only with adequate ventilation.
Storage	Keep out of reach of children. Store in a closed container away from incompatible materials.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C12-16, ethoxylated	ACGIH-TLV Not established
d-Limonene	ACGIH-TLV Not established
Ethanol	ACGIH-TLV TWA: 1000 ppm STEL: 1000 ppm
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	ACGIH-TLV Not established
Sodium borate	ACGIH-TLV TWA: 2 mg/m3 STEL: 6 mg/m3
Tetrasodium ethylenediamine tetraacetate	ACGIH-TLV Not established

Engineering controls	General ventilation normally adequate.
Personal protective equipment	
Eye/Face protection	Wear safety glasses with side shields.
Hand protection	Rubber gloves. Confirm with a reputable supplier first.
Skin and body protection	As required by employer code.
Respiratory protection	Avoid breathing mists or vapours. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. Wash hands before breaks and immediately after handling the product.

9. Physical and Chemical Properties

Appearance	Liquid
Colour	Blue
Form	Liquid
Odour	Characteristic
Odour threshold	Not available
Physical state	Liquid
pH	10.35 - 11.2 (100%)
Freezing point	Not available
Boiling point	Not available
Pour point	Not available
Evaporation Rate	Not available
Flash point	None
Auto-ignition temperature	Not applicable
Flammability limits in air, lower, % by volume	Not applicable
Flammability Limits in Air, Upper, % by Volume	Not applicable
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.011 - 1.023
Octanol/water coefficient	Not available
Solubility (H2O)	Complete

Viscosity	Water thin
Percent volatile	87.1 - 90.9

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerisation does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals.
Incompatible materials	Oxidizers. Caustics.
Hazardous decomposition products	May include and are not limited to: Hydrogen chloride. Oxides of nitrogen. Oxides of carbon.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
d-Limonene	Not available
Ethanol	31623 ppm rat
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	Not available
Sodium borate	Not available
Tetrasodium ethylenediamine tetraacetate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
d-Limonene	4400 mg/kg rat; 5600 mg/kg mouse
Ethanol	3450 mg/kg mouse; 7060 mg/kg rat
Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	426 mg/kg rat
Sodium borate	1060 mg/kg mouse; 2403 mg/kg rat
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	Contact with skin can cause irritation and allergic reaction (sensitization) in some individuals.
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Sensitisation	Contains a potential skin sensitizer.
Chronic effects	Non-hazardous by WHMIS criteria.
Carcinogenicity	See below.

ACGIH - Threshold Limit Values - Carcinogens

Ethanol	64-17-5	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Sodium borate	1330-43-4	A4 - Not Classifiable as a Human Carcinogen (listed under Borate compounds, inorganic)

IARC - Group 1 (Carcinogenic to Humans)

Ethanol	64-17-5	Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [2010] (in alcoholic beverages)
---------	---------	--

IARC - Group 3 (Not Classifiable)

d-Limonene	5989-27-5	Monograph 73 [1999] (overall evaluation downgraded from 2B to 3 with supporting evidence from other relevant data)
------------	-----------	--

Mutagenicity	Non-hazardous by WHMIS criteria.
---------------------	----------------------------------

Reproductive effects	Borates may cause harmful reproductive effects based on animal data. Hazardous by WHMIS criteria.
-----------------------------	---

Teratogenicity	Animal studies demonstrate that ingestion of ethanol can cause embryotoxicity, teratogenicity and fetotoxicity in the presence of maternal toxicity.
Name of Toxicologically Synergistic Products	Not available

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
Sodium borate	1330-43-4	96 Hr EC50 <i>Desmodesmus subspicatus</i> : 158 mg/L; 96 Hr EC50 <i>Pseudokirchneriella subcapitata</i> : 2.6 - 21.8 mg/L [static]
Tetrasodium ethylenediamine tetraacetate	64-02-8	72 Hr EC50 <i>Desmodesmus subspicatus</i> : 1.01 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
d-Limonene	5989-27-5	96 Hr LC50 <i>Pimephales promelas</i> : 0.619-0.796 mg/L [flow-through]; 96 Hr LC50 <i>Oncorhynchus mykiss</i> : 35 mg/L
Ethanol	64-17-5	96 Hr LC50 <i>Oncorhynchus mykiss</i> : 12.0 - 16.0 mL/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : >100 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 13400 - 15100 mg/L [flow-through]
Sodium borate	1330-43-4	96 Hr LC50 <i>Limanda limanda</i> : 340 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	96 Hr LC50 <i>Lepomis macrochirus</i> : 41 mg/L [static]; 96 Hr LC50 <i>Pimephales promelas</i> : 59.8 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data		
Ethanol	64-17-5	48 Hr LC50 <i>Daphnia magna</i> : 9268 - 14221 mg/L; 24 Hr EC50 <i>Daphnia magna</i> : 10800 mg/L; 48 Hr EC50 <i>Daphnia magna</i> : 2 mg/L [Static]
Sodium borate	1330-43-4	48 Hr LC50 <i>Daphnia magna</i> : 1085 - 1402 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	24 Hr EC50 <i>Daphnia magna</i> : 610 mg/L
Persistence and degradability	Not available	
Bioaccumulation/accumulation	Not available	
Mobility in environmental media	Not available	
Environmental effects	Not available	
Aquatic toxicity	Not available	
Partition coefficient	Not available	
Chemical fate information	Not available	
Other adverse effects	Not available	

13. Disposal Considerations

Disposal instructions	Dispose in accordance with all applicable regulations.
Waste from residues / unused products	Not available
Contaminated packaging	Not available

14. Transport Information

Transportation of Dangerous Goods (TDG - Canada)

Not regulated as dangerous goods.

15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.	
Canada - WHMIS - Ingredient Disclosure List		
d-Limonene	5989-27-5	1 %
Ethanol	64-17-5	0.1 %
Sodium borate	1330-43-4	1 %
WHMIS classification	Class D - Division 2A, 2B	
WHMIS status	Controlled	

**Inventory Status**

Country(s) or region	Inventory Name	On Inventory (Yes/No)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND HMIS	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

Health	* 2
Flammability	0
Physical Hazard	0
Personal Protection	X

Disclaimer

Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

08-Mar-2012

Effective Date

15-Jun-2012

Expiry Date

15-Jun-2015

Prepared by

Dell Tech Laboratories Ltd. (519) 858-5021

Other Information

For an updated MSDS, please contact the supplier/manufacturer listed on the first page of the document.

This MSDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.