

1. Product and Company Identification

Product Name	Airx 81
CAS #	Mixture
Product Use	Carpet care
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	WARNING COMBUSTIBLE LIQUID AND VAPOUR. 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	May cause irritation. May be absorbed through the skin.
NIOSH - Pocket Guide - Skin Notations	
Ethylene glycol monobutyl ether	111-76-2 Potential for dermal absorption
Inhalation	May cause respiratory tract irritation.
Ingestion	May cause stomach distress, nausea or vomiting.
Target organs	Blood. Eyes. Kidney. Liver. Respiratory system. Skin.
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
Tetrasodium ethylenediamine tetraacetate	64-02-8	0.5 - 1.5
C6-C12 alkyl alcohol ethoxylate phosphoric acid	68921-24-4	0.5 - 1.5
Alcohols, C12-16, ethoxylated	68551-12-2	0.5 - 1.5
Tetrapotassium pyrophosphate	7320-34-5	1 - 5
Sodium carbonate	497-19-8	1 - 5
Isopropanol	67-63-0	3 - 7
Ethylene glycol monobutyl ether	111-76-2	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. Never give anything by mouth if victim is unconscious, or is convulsing. Obtain medical attention.

Notes to physician

Symptoms may be delayed.

General advice

Keep away from sources of ignition. No smoking. 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

Combustible by WHMIS criteria.

Extinguishing media**Suitable extinguishing media**

Dry chemical. Alcohol foam. Carbon dioxide.

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: Oxides of carbon. Oxides of phosphorus.

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

Remove sources of ignition. 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

Use good industrial hygiene practices in handling this material.
When using do not eat or drink.
Avoid contact with skin and clothing.
Avoid contact with eyes.
Avoid breathing vapours or mists of this product.
Keep container tightly closed.
Use only with adequate ventilation.
Wash thoroughly after handling.

Storage

Keep out of reach of children.
Do not store at temperatures above 120°F (49°C).
Store in a closed container away from incompatible materials.
Keep away from heat and flame.

8. Exposure Controls / Personal Protection

Exposure limit values

Ingredient(s)	Exposure limit values
Alcohols, C12-16, ethoxylated	ACGIH-TLV Not established
C6-C12 alkyl alcohol ethoxylate phosphoric acid	ACGIH-TLV Not established
Ethylene glycol monobutyl ether	ACGIH-TLV TWA: 20 ppm
Isopropanol	ACGIH-TLV TWA: 200 ppm STEL: 400 ppm
Sodium carbonate	ACGIH-TLV Not established
Tetrapotassium pyrophosphate	ACGIH-TLV Not established
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	Clear
Form	Liquid
Odour	Characteristic
Odour threshold	Not available
Physical state	Liquid
pH	10.35 - 10.54 (100%)
Freezing point	Not available
Boiling point	92 °C (197.60 °F)
Pour point	Not available
Evaporation Rate	Not available
Flash point	60 °C (140.00 °F)
Auto-ignition temperature	Not available
Flammability limits in air, lower, % by volume	Not available
Flammability Limits in Air, Upper, % by Volume	Not available
Vapour pressure	Not available
Vapour density	Not available
Specific gravity	1.03 - 1.05

Octanol/water coefficient	Not available
Solubility (H2O)	Complete
Viscosity	Water thin
Percent volatile	90.6 - 91.5

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	Avoid high temperatures. Do not mix with other chemicals.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Oxides of phosphorus.

11. Toxicological Information

Component analysis - LC50

Ingredient(s)	LC50
Alcohols, C12-16, ethoxylated	Not available
C6-C12 alkyl alcohol ethoxylate phosphoric acid	Not available
Ethylene glycol monobutyl ether	2.21 mg/l/4h rat
Isopropanol	16970 mg/l/4h rat
Sodium carbonate	400 mg/m3 guinea pig
Tetrapotassium pyrophosphate	Not available
Tetrasodium ethylenediamine tetraacetate	Not available

Component analysis - Oral LD50

Ingredient(s)	LD50
Alcohols, C12-16, ethoxylated	1380 mg/kg rat
C6-C12 alkyl alcohol ethoxylate phosphoric acid	3950 mg/kg rat
Ethylene glycol monobutyl ether	470 mg/kg rat; 320 mg/kg rabbit
Isopropanol	4396 mg/kg rat
Sodium carbonate	4090 mg/kg rat
Tetrapotassium pyrophosphate	4000 mg/kg rat
Tetrasodium ethylenediamine tetraacetate	2000 mg/kg rat

Effects of acute exposure

Eye	May cause irritation.
Skin	May cause irritation. May be absorbed through the skin.

NIOSH - Pocket Guide - Skin Notations

Ethylene glycol monobutyl ether	111-76-2	Potential for dermal absorption
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Inhalation May cause respiratory tract irritation.

Ingestion May cause stomach distress, nausea or vomiting.

Sensitisation Non-hazardous by WHMIS criteria.

Chronic effects Non-hazardous by WHMIS criteria.

Carcinogenicity See below.

ACGIH - Threshold Limit Values - Carcinogens

Ethylene glycol monobutyl ether	111-76-2	A3 - Confirmed animal carcinogen with unknown relevance to humans.
Isopropanol	67-63-0	A4 - Not Classifiable as a Human Carcinogen

IARC - Group 3 (Not Classifiable)

Ethylene glycol monobutyl ether	111-76-2	Monograph 88 [2006]
Isopropanol	67-63-0	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]

Mutagenicity Non-hazardous by WHMIS criteria.

Reproductive effects Non-hazardous by WHMIS criteria.

Teratogenicity Non-hazardous by WHMIS criteria.

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns.	
Ecotoxicity - Freshwater Algae - Acute Toxicity Data		
Isopropanol	67-63-0	96 Hr EC50 Desmodesmus subspicatus: >1000 mg/L; 72 Hr EC50 Desmodesmus subspicatus: >1000 mg/L
Sodium carbonate	497-19-8	120 Hr EC50 Nitzschia: 242 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	72 Hr EC50 Desmodesmus subspicatus: 1.01 mg/L
Ecotoxicity - Freshwater Fish - Acute Toxicity Data		
Ethylene glycol monobutyl ether	111-76-2	96 Hr LC50 Lepomis macrochirus: 1490 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 2950 mg/L
Isopropanol	67-63-0	96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 11130 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: >1400000 µg/L
Sodium carbonate	497-19-8	96 Hr LC50 Lepomis macrochirus: 300 mg/L [static]; 96 Hr LC50 Pimephales promelas: 310 - 1220 mg/L [static]
Tetrapotassium pyrophosphate	7320-34-5	96 Hr LC50 Oncorhynchus mykiss: >100 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	96 Hr LC50 Lepomis macrochirus: 41 mg/L [static]; 96 Hr LC50 Pimephales promelas: 59.8 mg/L [static]
Ecotoxicity - Water Flea - Acute Toxicity Data		
Ethylene glycol monobutyl ether	111-76-2	24 Hr EC50 Daphnia magna: 1698 - 1940 mg/L; 48 Hr EC50 Daphnia magna: >1000 mg/L
Isopropanol	67-63-0	48 Hr EC50 Daphnia magna: 13299 mg/L
Sodium carbonate	497-19-8	48 Hr EC50 Daphnia magna: 265 mg/L
Tetrapotassium pyrophosphate	7320-34-5	48 Hr EC50 water flea: >100 mg/L
Tetrasodium ethylenediamine tetraacetate	64-02-8	24 Hr EC50 Daphnia magna: 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)

Basic shipping requirements:

Proper shipping name	FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL)
Hazard class	3
UN number	UN1993
Packing group	III
Additional information:	
Special provisions	16
Packaging exceptions	< 450L - Not regulated



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 - CEPA - Schedule I - List of Toxic Substances

Ethylene glycol monobutyl ether 111-76-2 Present

Canada - WHMIS - Ingredient Disclosure List

Ethylene glycol monobutyl ether 111-76-2 1 %
 Isopropanol 67-63-0 1 %
 Sodium carbonate 497-19-8 1 %

WHMIS classification Class B - Division 3 - Combustible Liquid, Class D - Division 2B

WHMIS status Controlled

WHMIS labeling



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	2
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.

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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.