

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product number 586-003
Product name **Attack Odor Counteractant & Air Freshener**
Effective date 07-Nov-2011
Company information Marathon
Paris, ONT N3L 3E7 Canada
Company phone General Assistance 1-800-265-9957
Emergency telephone US 1-866-836-8855
Emergency telephone outside US 703-527-3887
Version # 06
Supersedes date 19-Sep-2011
Expiry Date 19-Sep-2014
Product use Air freshener

2. Hazards Identification

Emergency overview Flammable aerosol. Heat may cause the containers to explode. Yields a flame projection at full valve opening or a flashback at any degree of valve opening. CONTENTS UNDER PRESSURE.
Harmful in contact with eyes. May cause sensitization by skin contact.

Potential health effects

Routes of exposure Eye contact. Skin contact. Ingestion.

Eyes Contact with eyes may cause irritation. Health injuries are not known or expected under normal use.

Skin May cause sensitization of susceptible persons. Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.

Inhalation Intentional misuse by concentrating and inhaling the product can be harmful or fatal. Health injuries are not known or expected under normal use.

Ingestion Exposure by ingestion of an aerosol is unlikely. Components of the product may be absorbed into the body by ingestion.

Target organs Central nervous system. Eyes. Skin.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Ethyl Alcohol	64-17-5	30 - 60
d-Limonene	5989-27-5	15 - 40
n-Butane	106-97-8	15 - 40
Propane	74-98-6	7 - 13
Non-hazardous and other components below reportable levels		1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. If a contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Get medical attention if irritation develops and persists.

Skin contact Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

Inhalation If symptoms develop move victim to fresh air. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention, if needed.

Ingestion

If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. In the unlikely event of swallowing contact a physician or poison control center. No need for first aid is anticipated if material is swallowed.

5. Fire Fighting Measures

Flammable properties	Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.
Extinguishing media	
Suitable extinguishing media	Polymer foam. Dry chemical powder. Carbon dioxide (CO ₂). Do not use water jet.
Unsuitable extinguishing media	Do not use water jet.
Protection of firefighters	
Protective equipment and precautions for firefighters	Containers should be cooled with water to prevent vapor pressure build up. Some of these materials, if spilled, may evaporate leaving a flammable residue. Do not direct water at source of leak or safety devices as icing may occur. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.
Unusual fire & explosion hazards	Flammable by WHMIS criteria. Heat may cause the containers to explode. Ruptured cylinders may rocket. Vapors may travel considerable distance to a source of ignition and flash back.

6. Accidental Release Measures

Methods for containment	Stop leak if you can do so without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). If possible, turn leaking containers so that gas escapes rather than liquid. Move the cylinder to a safe and open area if the leak is irreparable. Stop the flow of material, if this is without risk. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Prevent entry into waterways, sewer, basements or confined areas.
Methods for cleaning up	Clean up in accordance with all applicable regulations. Ventilate the area. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

7. Handling and Storage

Handling	Pressurized container: Do not pierce or burn, even after use. When using do not smoke. DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Do not use if spray button is missing or defective. Do not re-use empty containers. Wear personal protective equipment.
Storage	Contents under pressure. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Avoid exposure to long periods of sunlight. Keep at temperature not exceeding 49 °C. Store in a well-ventilated place. Keep out of the reach of children. Level 3 Aerosol.

8. Exposure Controls / Personal Protection

Exposure limits**ACGIH**

Components	CAS #	TWA	STEL	Ceiling
Ethyl Alcohol	64-17-5	1000 ppm	1000 ppm	Not established
n-Butane	106-97-8	1000 ppm	Not established	Not established
Propane	74-98-6	1000 ppm	Not established	Not established

Personal protective equipment

Eye / face protection Wear safety glasses with side shields (or goggles).

Skin protection
Respiratory protection

Wear appropriate chemical resistant clothing. Wear protective gloves.
No personal respiratory protective equipment normally required. If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator.

9. Physical & Chemical Properties

Appearance	Compressed liquefied gas.
Boiling point	170.6 °F (77.2 °C) estimated
Color	Pale yellow
Evaporation rate	Not available
Flammability (HOC)	35.3491 kJ/g estimated
Flammability limits in air, lower, % by volume	Not available
Flammability limits in air, upper, % by volume	Not available
Flash back	Yes
Flash point	-156 °F (-104.4 °C) Propellant
Form	Compressed gas. Aerosol.
Freezing point	Not available
Odor	fruity
Odor threshold	Not available
pH	Not applicable
Physical state	Liquid.
Pressure	31 - 51 psig @70F
Solubility (H2O)	Not miscible.
Specific gravity	0.7367 estimated

10. Chemical Stability & Reactivity Information

Chemical stability	Risk of ignition.
Conditions to avoid	Aerosol containers are unstable at temperatures above 49°C.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological Information

Acute effects	Acute LC50: 296 mg/l/4h estimated, Rat, Inhalation	
Component analysis - LD50		
Toxicology Data - Selected LD50s and LC50s		
d-Limonene	5989-27-5	Oral LD50 Rat 4400 mg/kg; Dermal LD50 Rabbit >2000 mg/kg
Ethyl Alcohol	64-17-5	Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h
n-Butane	106-97-8	Inhalation LC50 Rat 658 mg/L 4 h
Propane	74-98-6	Inhalation LC50 Rat 658 mg/L 4 h
Sensitization	May cause sensitization by skin contact.	
Carcinogenicity	Not expected to be hazardous by WHMIS criteria.	
ACGIH - Threshold Limit Values - Carcinogens		
Ethyl Alcohol	64-17-5	A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans
IARC - Group 1 (Carcinogenic to Humans)		
Ethyl Alcohol	64-17-5	Monograph 100E [in preparation] (in alcoholic beverages); Monograph 96 [in preparation] (in alcoholic beverages)
Mutagenicity	Not expected to be hazardous by WHMIS criteria.	
Teratogenicity	Not expected to be hazardous by WHMIS criteria.	
Chronic toxicity	Not expected to be hazardous by WHMIS criteria.	

12. Ecological Information

Ecotoxicity	Components of this product have been identified as having potential environmental concerns. LC50 1998 mg/L, Fish, 96.00 Hours,
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13. Disposal Considerations

Disposal instructions Contents under pressure. Dispose of this material and its container to hazardous or special waste collection point. Do not incinerate sealed containers. If discarded, this product is considered a RCRA ignitable waste, D001.

14. Transport Information

Canadian Transportation of Dangerous Goods (TDG) Requirements

Proper shipping name AEROSOLS, flammable
Hazard class 2.1
UN number UN1950
Marine pollutant •
Special provisions 80 SOR/2002-306
Packaging exceptions If <1L: Consumer Commodity



15. Regulatory Information

Canadian regulations This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Canada - WHMIS - Ingredient Disclosure List

d-Limonene	5989-27-5	1 %
Ethyl Alcohol	64-17-5	0.1 %
n-Butane	106-97-8	1 %

WHMIS status Controlled

WHMIS classification A - Compressed Gas
B5 - Flammable/Combustible
D2A - Other Toxic Effects-VERY TOXIC
D2B - Other Toxic Effects-TOXIC

WHMIS labeling



Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of New and Existing Chemicals (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

16. Other Information

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication, The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

MSDS sections updated

Product and Company Identification: Product Review

Prepared by

Regulatory Compliance