



NEW DIRECTIONS AROMATICS

MATERIAL SAFETY DATA SHEET

SECTION: 1.1 PRODUCT IDENTIFICATION

Product Name: Witch Hazel Distillate 14%
Botanical Name: Hamamelis virginiana
Synonyms: *Hamameli macrophylla*, *Hamamelis virginiana* var. *macrophylla*
INCI Name: Hamamelis virginiana (witch hazel) water (and) Ethanol
CAS #: 68916-39-2, 64-17-5 (Mixture)
Country of Origin: Canada

SECTION: 1.2 COMPANY IDENTIFICATION

Company: New Direction Aromatics Inc.
Address: 6781-Columbus Road, Mississauga. L5T 2G9 Canada
Telephone No: 905-362-1915
FAX: 905-362-1926

24 HOUR EMERGENCY TELEPHONE NUMBER: (613)-996-6666 CANUTEC

SECTION: 2. COMPOSITION / INFORMATION INGREDIENTS

Constituents:	By Weight	CAS#	Exposure limit	LC ₅₀ /LD ₅₀
Witch Hazel	85 – 86 %	68916-39-2	N/A	N/A
Ethyl Alcohol	14 – 15 %	64-17-5	N/A	Oral (LD ₅₀): Acute: 7060 mg/kg [Rat] 13660 mg/kg [Rat]10600 mg/kg [Rat] Vapor (LC ₅₀): Acute: 20000 ppm 10 hours [Rat]

SECTION: 3. HAZARDS IDENTIFICATION

Potential Acute Health Effect Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential chronic health Effects Carcinogenic Effects: N/A
Mutagenic effects: Classified “Possible” for Human [Ethyl Alcohol]
Teratogenic Effects: N/A
Development toxicity: N/A
The substance may be toxic to Nervous system, liver, gastrointestinal, cardiovascular system, upper respiratory tract, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION: 4. FIRST AID MEASURES

Eye Contact: Check for remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear.

Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie belt or waistband. Have conscious person drink several glasses of water or milk. Seek medical attention immediately.



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SECTION: 5. FIRE FIGHTING MEASURES

Products of combustion	These products are Carbon oxides (CO, CO ₂).
Fire fighting media and instructions:	Small Fire: Use Dry chemical powder Large Fire: Use alcohol foam, water spray or fog. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosion. Do not use water jet.
Special Remarks on Fire Hazards:	Evolve toxic fumes when heated to the decomposition state. May form explosive mixtures with air. Vapor may travel considerable distance to source of ignition and flash back. Container explosion may occur under fire conditions or when heated. (Ethyl Alcohol)
Special remarks on Explosion Hazards	N/A Highly Flammable in presence of open flames and sparks.

SECTION: 6. ACCIDENTAL RELEASE MEASURES

Small spill and leak	Dilute with water and mop up, or absorb with inert dry material and place in an appropriate waste container. Finish cleaning by spreading water on the containment surface and dispose of according to local and regional authority requirements.
Large spill and leak	Flammable Liquid. Keep away from heat. Keep away from source of ignition. Be careful that the product is not present at concentration level above TLV. Check MSDS and with local authorities. Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Personal protection in case of large spill	Splash goggles, Full suit, Vapor respirator, Boot, Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist BEFORE handling this product.

SECTION: 7. HANDLING AND STORAGE

Precaution	Keep locked up. Keep away from heat. Keep away from source of ignition. Do not ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or label. Keep away from incompatibles such as oxidizing agents, acids.
Incompatibility	Reactive with oxidizing agents, acids. Slightly reactive to reactive with combustible material, metals.
Storage:	Store in a segregated and approved area. Keep in a cool, well ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame). Store in a stainless steel or coated fiberboard drum using strong polyethylene inner package. Do not store in contact with aluminum, zinc, copper or their alloys.



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SECTION: 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering controls	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value (TLV). Ensure that eye wash stations and safety shower are proximal to the work-station location.
Personal Protection	Eyes: Safety glasses Body: Lab coat Respiratory: Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Hands: Gloves Feet: N/A
Exposure Limits:	1,2,3-propanetriol TWA: 1000 (ppm) from ACGIH (TLV) [US] TWA: 1000 from OSHA [US] Consult local authorities for acceptable exposure limits.

SECTION: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless, Liquid (Flammable liquid)
Odor	Characteristics
Specific Gravity:	0.979 to 0.982
Melting Point:	-8 °C (17.6 °F)
Boiling Point:	88°C (190 °F)
pH	N/A
Vapor Density	1.03
Viscosity	N/A
Solubility	Easily soluble in cold & hot water, methanol, diethyl ether
Flash Point	43.33 °C
Fire Hazards	Highly Flammable

SECTION: 10. STABILITY AND REACTIVITY

Stability:	Chemically stable.
Conditions to Avoid:	Avoid sparks, flame and excessive heat.
Materials to Avoid:	Strong oxidizing agents, acids.
Flammability:	Combustible liquid.
Hazardous Polymerization:	Will not occur.
Decomposition Products:	When heated to decomposition produces fumes of Carbon dioxide and carbon monoxide smoke.
Special Remarks on Reactivity	Hygroscopic: Keep container tightly closed.

SECTION: 11. TOXICOLOGICAL INFORMATION

Route of entry	Absorbed through skin, Eye contact, inhalation, ingestion.
Toxicity to animals	Acute oral toxicity (LD50): 7060 mg/kg [Rat] Ethyl Alcohol
Acute effect on Humans	Eyes: Slightly hazardous in case of eye contact (irritant) Skin: Sensitization of the product: N/A



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Slightly hazardous in case of skin contact (irritant) skin inflammation is characterized by itching, scaling, reddening, or, occasionally blistering.

Inhalation Slightly hazardous in case of inhalation (lung irritant)

Ingestion Hazardous in case of ingestion.

Chronic Effects on Humans

Carcinogenic Effects: N/A

Mutagenic effects: Classified "Possible"

Teratogenic Effects: N/A

Development toxicity: N/A

The substance may be toxic to kidneys.

Repeated or prolonged exposure to the substance can produce target organs damage.

SECTION: 12. ECOLOGICAL INFORMATION

Possibly hazardous short term degradation products are not likely. However long term degradation products may arise. Avoid any pollution of ground, surface or underground water.

SECTION: 13. DISPOSAL CONSIDERATION

Incineration or sanitary landfill in accordance with local, provincial and federal regulations. Check with disposal expert to insure compliance

SECTION: 14. TRANSPORT INFORMATION

TDG Classification: Not controlled under TDG Canada; Check appropriate authority

IATA Shipping (Air): N/A; Check appropriate authority

IMDG Shipping N/A; Check appropriate authority

SECTION: 15. REGULATORY INFORMATION

WHMIS (Canada): Class B-2: Flammable liquid with flash point lower than 37.8 °C (100 °F)
Class- D-2B: Material causing other toxic effects (TOXIC)

Regulatory Lists CEPA DSL: Witch Hazel; Ethyl Alcohol

OSHA: hazardous by definition of Hazard Communication Standard
(29 CFR 1910. 1200)

Other Regulations EINECS: This product is on the European Inventory of Existing Commercial
Chemical Substances.

Other Classifications:

HCS (U.S.A.)

Class: target organ effects

Class: Combustible liquid having flash point between
37.8 °C (100 °F) and 93.3 °C (200°F)

DSCL (EEC)

R10-Flammable

HMIS Rating: Health: 0

Flammability: 2

Reactivity: 0

SECTION: 16. OTHER INFORMATION

Revision Date: June 17, 2011



MATERIAL SAFETY DATA SHEET

SECTION: 17. DISCLAIMER

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CERTIFICATE OF ANALYSIS

Product: Witch Hazel Distillate 14% (Ethyl Alcohol)
Lot No.: 16015-A38/B38
Manufacturing Date: May 2011
Best Before: May 2014

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	Characteristics	Complies
Clarity	Colorless	Complies
Solubility: in Water	Soluble in Hot & cold	Complies
Solubility in Acetone, Ketones, IPA, n-Butanol	Insoluble	Complies
Specific Gravity: @25°C	0.976-0.982	0.981
% of Ethyl Alcohol	14.0 – 15.0	14.6
pH @ 25 deg C	3.0 – 5.0	3.36

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CERTIFICATE OF ANALYSIS

Product: Witch Hazel Distillate 14% (Ethyl Alcohol)
Lot No.: 16015-A39/B39
Manufacturing Date: May 2011
Best Before: May 2014

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	Characteristics	Complies
Clarity	Colorless	Complies
Solubility: in Water	Soluble in Hot & cold	Complies
Solubility in Acetone, Ketones, IPA, n-Butanol	Insoluble	Complies
Specific Gravity: @25°C	0.976-0.982	0.981
% of Ethyl Alcohol	14.0 – 15.0	14.6
pH @ 25 deg C	3.0 – 5.0	3.36

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CERTIFICATE OF ANALYSIS

Product: Witch Hazel Distillate 14% (Ethyl Alcohol)
Lot No.: 16015-A40/B40
Manufacturing Date: December 2010
Best Before: December 2013

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	Characteristics	Complies
Clarity	Colorless	Complies
Solubility: in Water	Soluble in Hot & cold	Complies
Solubility in Acetone, Ketones, IPA, n-Butanol	Insoluble	Complies
Specific Gravity: @25°C	0.976-0.982	0.981
% of Ethyl Alcohol	14.0 – 15.0	14.6
pH @ 25 deg C	3.0 – 5.0	3.36

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CERTIFICATE OF ANALYSIS

Product: Witch Hazel Distillate 14% (Ethyl Alcohol)
Lot No.: 16015-A41/B41
Manufacturing Date: July 2011
Best Before: July 2014

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	Characteristics	Complies
Clarity	Colorless	Complies
Solubility: in Water	Soluble in Hot & cold	Complies
Solubility in Acetone, Ketones, IPA, n-Butanol	Insoluble	Complies
Specific Gravity: @25°C	0.976-0.982	0.981
% of Ethyl Alcohol	14.0 – 15.0	14.6
pH @ 25 deg C	3.0 – 5.0	3.36

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CERTIFICATE OF ANALYSIS

Product: Witch Hazel Distillate 14% (Ethyl Alcohol)
Lot No.: 16015-A42/B42
Manufacturing Date: May 2011
Best Before: May 2014

<u>Properties</u>	<u>Specification</u>	<u>Result</u>
Appearance:	Clear, Liquid	Complies
Odor:	Characteristics	Complies
Clarity	Colorless	Complies
Solubility: in Water	Soluble in Hot & cold	Complies
Solubility in Acetone, Ketones, IPA, n-Butanol	Insoluble	Complies
Specific Gravity: @25°C	0.976-0.982	0.981
% of Ethyl Alcohol	14.0 – 15.0	14.6
pH @ 25 deg C	3.0 – 5.0	3.36

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