

## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

070186254

N/A

**Monarch Lines Cleaner**

SDS Preparation Date (mm/dd/yyyy): 02/05/2018

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**SAFETY DATA SHEET****SECTION 1. IDENTIFICATION****Product identifier used on the label**: **Monarch Lines Cleaner****Product Code(s)** : 16.9 oz Bottle**Recommended use of the chemical and restrictions on use**: Cleaner  
Restriction on use: None known**Chemical family** : Mixture.**Name, address, and telephone number of the supplier:****Air Techniques, Inc.**1295 Walt Whitman Road  
Melville, NY, USA  
11747

Supplier's Telephone # : 516-433-7676

**24 Hr. Emergency Tel #** : Chemtrec 1-800-424-9300 (Within Continental U.S.); Chemtrec 703-527-3887 (Outside U.S.).**Name, address, and telephone number of the manufacturer:**

Refer to supplier

**SECTION 2. HAZARDS IDENTIFICATION****Classification of the chemical**

Light blue liquid. Peppermint odor.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Hazard classification**

Flammable Liquid - Category 3

Serious eye damage/eye irritation - Category 2A

**Label elements***Hazard pictogram(s)**Signal Word*

WARNING!

*Hazard statement(s)*Flammable liquid and vapor.  
Causes serious eye irritation.

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*Precautionary statement(s)*

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Keep container tightly closed.  
Ground and bond container and receiving equipment.  
Take precautionary measures against static discharge.  
Use only non-sparking tools.  
Use explosion-proof electrical and ventilating equipment.  
Wash thoroughly after handling.  
Wear protective gloves and eye/face protection.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use water fog, dry chemical, CO2 or 'alcohol' foam to extinguish.

Store in a well-ventilated place. Keep cool.  
Store locked up.

Dispose of contents/container in accordance with local regulation.

**Other hazards**

Other hazards which do not result in classification:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>Common name and synonyms</u>	<u>CAS #</u>	<u>Concentration (% by weight)</u>
<b>Ethanol</b>	Ethyl alcohol	64-17-5	<b>10.0 - 30.0</b>
<b>Chlorhexidine gluconate</b>	Chlorhexidine digluconate, 20%	18472-51-0	<b>&lt;1</b>

The exact concentrations of the above listed chemicals are being withheld as a trade secret.

### SECTION 4. FIRST-AID MEASURES

**Description of first aid measures**

- Ingestion* : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without advice from poison control center. Get medical attention.
- Inhalation* : If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms persist.
- Skin contact* : Wash off with warm water and soap. Get medical attention if symptoms occur.
- Eye contact* : If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms persist.

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

- : Causes serious eye irritation. Symptoms may include tearing, redness and discomfort. Prolonged skin contact may cause dermatitis (rash), characterized by red, dry, itching skin. Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Indication of any immediate medical attention and special treatment needed**

- : Treat symptomatically.

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### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

*Suitable extinguishing media*

: Water. Water Spray or Fog. Dry chemicals. Foam. Carbon dioxide (CO<sub>2</sub>).

*Unsuitable extinguishing media*

: Do not use water jet, as this may spread burning material.

#### Special hazards arising from the substance or mixture / Conditions of flammability

: Flammable liquid and vapor. Vapors may travel considerable distance to a source of ignition and flash back. Vapors are heavier than air and will settle and collect in low areas and pits, displacing breathing air.

#### Flammability classification (OSHA 29 CFR 1910.106)

: Flammable Liquids - Category 3

#### Hazardous combustion products

: Carbon oxides and other irritating fumes and smoke.

#### Special protective equipment and precautions for firefighters

*Protective equipment for fire-fighters*

: Firefighters should wear proper protective equipment and self-contained breathing apparatus (SCBA) with full face piece operated in positive pressure mode.

*Special fire-fighting procedures*

: Do not breathe mists, vapours or sprays. Cool containers exposed to flames with water until well after the fire is out.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions, protective equipment and emergency procedures

: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep unnecessary personnel away. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

**Environmental precautions** : Do not allow material to contaminate ground water system.

#### Methods and material for containment and cleaning up

: Stop the spill at source if it is safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13).

#### Special spill response procedures

: If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8802). US CERCLA Reportable quantity (RQ): See section 15.

### SECTION 7. HANDLING AND STORAGE

#### Precautions for safe handling

: Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Eliminate all sources of ignition. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof equipment. Use only non-sparking tools. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Avoid breathing mist or vapor. Avoid contact with eyes, skin, and clothing. Use only with adequate ventilation. Wash thoroughly after handling.

**Conditions for safe storage** : Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

**Incompatible materials** : Oxidizing agents.

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### SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Exposure Limits:</b>				
<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ethanol	N/Av	1000ppm	1000 ppm	N/Av
Chlorhexidine gluconate	N/Av	N/Av	N/Av	N/Av

#### Exposure controls

##### Ventilation and engineering measures

: Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits. Use explosion-proof equipment.

##### Respiratory protection

: In case of insufficient ventilation wear suitable respiratory equipment. Advice should be sought from respiratory protection specialists.

##### Skin protection

: Wear protective gloves. Advice should be sought from glove suppliers.

##### Eye / face protection

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

##### Other protective equipment

: An eyewash station should be made available in the immediate working area.

##### General hygiene considerations

: Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Do not ingest. Do not eat, drink, smoke or use cosmetics while working with this product. Upon completion of work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove and wash contaminated clothing before re-use.

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** : Clear blue liquid.

**Odour** : Peppermint odor.

**Odour threshold** : Not available.

**pH** : 6.0

**Melting/Freezing point** : Not available.

#### Initial boiling point and boiling range

: 105°C (221°F)

**Flash point** : 45°C (113°F)

**Flashpoint (Method)** : Closed cup

**Evaporation rate (BuAe = 1)** : Not available.

**Flammability (solid, gas)** : Not applicable.

**Lower flammable limit (% by vol.)**

: Not available.

**Upper flammable limit (% by vol.)**

: Not available.

**Oxidizing properties** : None known.

**Explosive properties** : Not explosive

**Vapour pressure** : Not available.

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**Vapour density** : Not available.  
**Relative density / Specific gravity** : 0.99  
**Solubility in water** : Not available.  
**Other solubility(ies)** : No information available.  
**Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : Not available.  
**Auto-ignition temperature** : Not available.  
**Decomposition temperature** : No information available.  
**Viscosity** : Not available.  
**Volatiles (% by weight)** : No information available.  
**Volatile organic Compounds (VOC's)** : Not available.  
**Absolute pressure of container** : N/Ap  
**Flame projection length** : N/Ap  
**Other physical/chemical comments** : None known or reported by the manufacturer.

### SECTION 10. STABILITY AND REACTIVITY

**Reactivity** : Not expected to be reactive.  
**Chemical stability** : Material is stable under normal conditions.  
**Possibility of hazardous reactions** : Hazardous polymerization does not occur.  
**Conditions to avoid** : Keep away from heat, sparks and flame.  
**Incompatible materials** : See Section 7 (Handling and Storage) for further details.  
**Hazardous decomposition products** : See Section 5 (Fire Fighting Measures).

### SECTION 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure:

**Routes of entry inhalation** : YES  
**Routes of entry skin & eye** : YES  
**Routes of entry Ingestion** : YES  
**Routes of exposure skin absorption** : NO

#### Potential Health Effects:

#### **Signs and symptoms of short-term (acute) exposure**

##### *Sign and symptoms Inhalation*

: Inhalation of high concentrations may cause dizziness, disorientation, incoordination, narcosis, nausea or narcotic effects.

##### *Sign and symptoms ingestion*

: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

##### *Sign and symptoms skin*

: Direct skin contact may cause slight or mild, transient irritation.

##### *Sign and symptoms eyes*

: Causes eye irritation. Symptoms may include tearing, redness and discomfort.

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**Potential Chronic Health Effects**

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

**Mutagenicity** : Not expected to be mutagenic.

**Carcinogenicity** : No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

**Reproductive effects & Teratogenicity**

: This product is not expected to cause reproductive or developmental effects.

**Sensitization to material** : Not expected to be a skin or respiratory sensitizer.

**Specific target organ effects** : This material is not classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

**Medical conditions aggravated by overexposure**

: Pre-existing skin, eye and respiratory disorders.

**Synergistic materials** : Not available.

**Toxicological data** : There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data. See below for toxicological data on the substance.

<u>Chemical name</u>	<u>LC<sub>50</sub>(4hr)</u>	<u>LD<sub>50</sub></u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethanol	>61mg/L (vapour)	7060 mg/kg	>15800mg/kg
Chlorhexidine gluconate	N/Av	2 g/kg	>5000 mg/kg

**Other important toxicological hazards**

: None known or reported by the manufacturer.

### SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity** : Contains material that may be harmful in the environment. Do not allow material to contaminate ground water system.

**Ecotoxicity data:**

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Fish</u>		
		<u>LC50 / 96h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Ethanol	64-17-5	>100mg/L (Fathead minnow)	N/Av	N/Ap
Chlorhexidine gluconate	18472-51-0	2.08 mg/L (Zebra fish)	N/Av	None.

<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Daphnia</u>		
		<u>EC50 / 48h</u>	<u>NOEC / 21 day</u>	<u>M Factor</u>
Ethanol	64-17-5	5012mg/L Water flea	N/Av	N/Ap
Chlorhexidine gluconate	18472-51-0	0.087(Daphnia magna) mg/L	0.0206mg/L (Daphnia magna)	10

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<u>Ingredients</u>	<u>CAS No</u>	<u>Toxicity to Algae</u>		
		<u>EC50 / 96h or 72h</u>	<u>NOEC / 96h or 72h</u>	<u>M Factor</u>
Ethanol	64-17-5	1000mg/L (Green algae)	N/Av	N/Av
Chlorhexidine gluconate	18472-51-0	0.081 mg/L (Green algae)	0.0075 (Green algae) mg/L	100

**Persistence and degradability**

: No data is available on the product itself.

**Bioaccumulation potential**

: No data is available on the product itself.

<u>Components</u>	<u>Partition coefficient n-octanol/water (log Kow)</u>	<u>Bioconcentration factor (BCF)</u>
Ethanol (CAS 64-17-5)	-0.32	N/Av
Chlorhexidine gluconate (CAS 18472-51-0)	-1.81	42

**Mobility in soil**

: No data is available on the product itself.

**Other Adverse Environmental effects**

: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### SECTION 13. DISPOSAL CONSIDERATIONS

**Handling for Disposal**

: Handle waste according to recommendations in Section 7. Do not cut, weld, drill or grind on or near this container. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

**Methods of Disposal**

: Reuse or recycling should be given priority over disposal. If the material is unsuitable for recycling or reclamation, dispose of in accordance with federal, provincial and local hazardous waste laws. Contact your local, state or federal environmental agency for specific rules.

**RCRA**

: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.






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### SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol)	LQ ground	III	
<b>49CFR/DOT Additional information</b>	May be shipped as a Limited Quantity when transported in containers no larger than 5 L (1.3 gallons); in packages not exceeding 30 kg (66 pounds) gross mass.				
ICAO/IATA	UN1993	Flammable liquid, n.o.s. (Ethanol)	LQ air	III	 
<b>ICAO/IATA Additional information</b>	Refer to ICAO/IATA Packing Instruction . May be shipped as Limited Quantity, see the regulations for details.				
IMDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol)	LQ ground	III	
<b>IMDG Additional information</b>	Consult the IMDG regulations for exceptions.				
TDG	UN1993	FLAMMABLE LIQUID, N.O.S. (Ethanol)	LQ ground	III	
<b>TDG Additional information</b>	May be shipped as Limited Quantity when transported in containers no larger than 5.0 Litres; in packages not exceeding 30 kg gross mass.				

**Special precautions for user** : Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

**Environmental hazards** : This product does not meet the criteria for an environmentally hazardous mixture, according to the IMDG Code. See Section 12 for more environmental information.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**  
: This information is not available.

### SECTION 15 - REGULATORY INFORMATION

#### US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<u>Ingredients</u>	CAS #	TSCA Inventory	CERCLA Reportable Quantity(RQ) (40 CFR 117.302):	SARA TITLE III: Sec. 302, Extremely Hazardous Substance, 40 CFR 355:	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical	de minimus Concentration
Ethanol	64-17-5	Yes	N/Ap	N/Av	No	N/Ap
Chlorhexidine gluconate	18472-51-0	Yes	N/Ap	N/Av	No	NS

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SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Flammable; Eye irritation . Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds or the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

**US State Right to Know Laws:**

The following chemicals are specifically listed by individual States:

<u>Ingredients</u>	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Ethanol	64-17-5	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Chlorhexidine gluconate	18472-51-0	No	N/Ap	No	No	No	No	No	No

**Canadian Information:**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

**International Information:**

Components listed below are present on the following International Inventory list:

<u>Ingredients</u>	CAS #	European EINECS	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Ethanol	64-17-5	200-578-6	Present	Present	(2)-202	KE-13217	Present	HSR001144
Chlorhexidine gluconate	18472-51-0	242-354-0	Present		(9)-2060	KE-17668	Present	HSR003714

### SECTION 16. OTHER INFORMATION

**Legend**

: ACGIH: American Conference of Governmental Industrial Hygienists  
CA: California  
CAS: Chemical Abstract Services  
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980  
DOT: Department of Transportation  
HSDB: Hazardous Substances Data Bank  
IARC: International Agency for Research on Cancer  
Inh: Inhalation  
LC: Lethal Concentration  
LD: Lethal Dose  
MA: Massachusetts  
MN: Minnesota  
MSHA: Mine Safety and Health Administration  
N/Ap: Not Applicable  
N/Av: Not Available  
NIOSH: National Institute of Occupational Safety and Health  
NJ: New Jersey  
NTP: National Toxicology Program  
OSHA: Occupational Safety and Health Administration  
PA: Pennsylvania  
PEL: Permissible exposure limit  
RCRA: Resource Conservation and Recovery Act

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RI: Rhode Island  
RTECS: Registry of Toxic Effects of Chemical Substances  
SARA: Superfund Amendments and Reauthorization Act  
STEL: Short Term Exposure Limit  
TCC: Tagliabue Closed Cup  
TDG: Canadian Transportation of Dangerous Goods Act & Regulations  
TLV: Threshold Limit Values  
TWA: Time Weighted Average  
TSCA: Toxic Substance Control Act  
WHMIS: Workplace Hazardous Materials Identification System

- References** :
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2016
  2. International Agency for Research on Cancer Monographs, searched 2017
  3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2017(Chempendium, HSDB and RTECs).
  4. Material Safety Data Sheets from manufacturer.
  5. US EPA Title III List of Lists - 2017 version.
  6. California Proposition 65 List - 2017 version.
  7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal, 2017.

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**Other special considerations for handling**

: Provide adequate information, instruction and training for operators.

<p><b><u>Prepared for:</u></b> Air Techniques, Inc. 1295 Walt Whitman Road Melville, NY 11747 516-433-7676 www.airtechniques.com</p>	
<p><b><u>Prepared by:</u></b> ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada) <a href="http://www.thecompliancescenter.com">http://www.thecompliancescenter.com</a></p>	

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