



Insulation Mastic

PM11; PM15

SDS Preparation Date (mm/dd/yyyy): 05/25/2015

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the label

: **Insulation Mastic**

Product Code(s) : PM11 (P/N 475311); PM15 (P/N 475312)

Recommended use of the chemical and restrictions on use

: Heat conducting compound.

Chemical family

: Mixture.

Name, address, and telephone number of the supplier:

Parker Hannifin Corporation - Sporlan Division

206 Lange Drive
Washington, MO, U.S.A.
63090

Supplier's Telephone # : (636) 239-1111

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

WHMIS Classification: This material is classified as hazardous under Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Hazard classification:
D2A - Other toxic effects - Very toxic

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) Hazard classification:
Germ Cell Mutagenicity - Category 2
Carcinogenicity - Category 2
Reproductive Toxicity - Category 2
Specific target organ toxicity, repeated exposure: Category 2

Label elements

The following label information is applicable only to the United States according to OSHA Regulations (29 CFR 1910.1200) (Hazcom 2012):

Signal Word

WARNING!

Hazard statement(s)

Suspected of causing genetic defects.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure.

Precautionary statement(s)



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Obtain special instructions before use.
 Do not handle until all safety precautions have been read and understood.
 Do not breathe fumes or vapors.
 Wear protective gloves/clothing and eye/face protection.

IF exposed or concerned: Get medical attention/advice.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.



The following label information is applicable only to Canada according to the Canadian Controlled Products Regulations (CPR/WHMIS):

WARNING!

May cause eye, skin and respiratory tract irritation. Avoid prolonged contact. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Suspected of causing genetic defects. May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

Wear protective gloves/clothing and eye/face protection. Avoid contact with skin, eyes and clothing. Avoid contact with incompatible materials. Do not breathe fumes or mists.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. When symptoms persist or in all cases of doubt seek medical advice.



Other hazards

Other hazards which do not result in classification:
 Burning produces obnoxious and toxic fumes. May be mildly irritating to eyes and skin. Fumes from heated product may irritate respiratory tract. Ingestion may cause irritation of the mouth, throat and stomach.

Environmental precautions: Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

<u>Chemical name</u>	<u>CAS #</u>	<u>Concentration</u>
Asphalt, oxidized	64742-93-4	40.0 - 50.0
Ethylene glycol	107-21-1	0.1 - 1.0
Crystalline silica	14808-60-7	0.1 - 1.0
Potassium hydroxide	1310-58-3	0.1 - 1.0
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	0.1 - 1.0



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SECTION 4. FIRST-AID MEASURES

Description of first aid measures

- Ingestion* : Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention.
- Inhalation* : Move to fresh air. If breathing is difficult, give oxygen by qualified medical personnel only. If breathing has stopped, give artificial respiration. If irritation or symptoms develop, seek medical attention.
- Skin contact* : For skin contact, wash with soap and water while removing contaminated clothing. If irritation persists, seek prompt medical attention. Wash contaminated clothing before reuse.
- Eye contact* : Immediately flush eyes with running water for at least 5 to 10 minutes. If irritation persists, seek prompt medical attention.

Most important symptoms and effects, both acute and delayed

- : Direct skin contact may cause temporary redness. Direct eye contact may cause temporary redness. If product is heated or mists are formed, inhalation may cause irritation to the nose, throat and respiratory tract. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Suspected of causing genetic defects. May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

Indication of any immediate medical attention and special treatment needed

- : Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

- Suitable extinguishing media* : Use media suitable to the surrounding fire such as water fog or fine spray, alcohol foams, carbon dioxide and dry chemical.
- 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

- : Not flammable under normal conditions of use. However, may ignite if exposed to extreme heat and flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure.

Flammability classification (OSHA 29 CFR 1910.106)

- : Non-flammable.

Explosion Data: Sensitivity to Mechanical Impact / Static Discharge:

- : Not expected to be sensitive to mechanical impact or static discharge.

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 with full face piece operated in positive pressure mode.
- Special fire-fighting procedures* : Move containers from fire area if safe to do so. Water spray may be useful in cooling equipment exposed to heat and flame. Prevent runoff from fire control or dilution from entering sewers, drains, drinking water supply or any natural waterway.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures



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: Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Refer to protective measures listed in sections 7 and 8.

Environmental precautions : Ensure spilled product does not enter drains, sewers, waterways, or confined spaces.

Methods and material for containment and cleaning up

: Ventilate area of release. Stop the spill at source if it is safe to do so. Use inert, non-combustible absorbents to assist the pick up of material. Scrape up product and place it into a container for disposal. Notify the appropriate authorities as required. Refer to Section 13 for disposal of contaminated material.

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): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/clothing and eye/face protection. Use with adequate ventilation. Training the workers on the potential health hazards associated with product vapor, dust or fume is important. Secondary inhalation exposures could occur when cleaning equipment, or when removing or laundering the clothing. Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Keep away from extreme heat and flame. Keep away from acids and incompatibles. Keep containers closed when not in use. Wash thoroughly after handling.

Conditions for safe storage : Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Inspect periodically for damage or leaks. Protect against physical damage. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel.

Incompatible materials : Acids; Oxidizing agents.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<u>Chemical Name</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Asphalt, oxidized	N/Av	N/Av	N/Av	N/Av
Ethylene glycol	100 mg/m ³ (aerosol) (Ceiling)	N/Av	50 ppm (final rule limit)	N/Av
Crystalline silica	0.025 mg/m ³ (respirable)	N/Av	0.1 mg/m ³ (respirable) (final rule limit)	N/Av
Potassium hydroxide	N/Av	N/Av	N/Av	N/Av
Distillates, petroleum, solvent-dewaxed heavy paraffinic	N/Av	N/Av	N/Av	N/Av

Exposure controls

Ventilation and engineering measures

: Use with adequate ventilation. Use general or local exhaust ventilation to maintain air concentrations below recommended exposure limits.



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- Respiratory protection** : If the TLV is exceeded, a NIOSH/MSHA-approved respirator is advised. Advice should be sought from respiratory protection specialists.
- Skin protection** : Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.
- Eye / face protection** : Safety goggles or glasses as appropriate for the job.
- Other protective equipment** : Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. Ensure that eyewash stations and safety showers are close to the workstation location.
- General hygiene considerations** : Avoid breathing vapors, fumes or dust. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance** : Black viscous liquid.
- Odour** : Asphalt odour.
- Odour threshold** : N/Av
- pH** : N/Av
- Melting/Freezing point** : N/Av
- Initial boiling point and boiling range** : N/Av
- Flash point** : N/Av
- Flashpoint (Method)** : N/Av
- Evaporation rate (BuAe = 1)** : < 1
- Flammability (solid, gas)** : Not flammable.
- Lower flammable limit (% by vol.)** : N/Av
- Upper flammable limit (% by vol.)** : N/Av
- Oxidizing properties** : None known.
- Explosive properties** : Not explosive
- Vapour pressure** : N/Av
- Vapour density** : N/Av
- Relative density / Specific gravity** : N/Av 1.6
- Solubility in water** : insoluble
- Other solubility(ies)** : N/Av
- Partition coefficient: n-octanol/water or Coefficient of water/oil distribution** : N/Av
- Auto-ignition temperature** : N/Av
- Decomposition temperature** : N/Av
- Viscosity** : N/Av
- Volatiles (% by weight)** : 43%
- Volatile organic Compounds (VOC's)** : N/Av
- Absolute pressure of container** : N/Av
- Flame projection length** : N/Av
- Other physical/chemical comments** : No additional information.



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SECTION 10. STABILITY AND REACTIVITY

- Reactivity** : Not normally reactive.
- Chemical stability** : Stable under the recommended storage and handling conditions prescribed.
- Possibility of hazardous reactions** : Hazardous polymerization will not occur.
- Conditions to avoid** : Avoid heat and open flame. Avoid contact with incompatible materials. Do not use in areas without adequate ventilation.
- Incompatible materials** : Acids; Oxidizing agents.
- Hazardous decomposition products** : None known, refer to hazardous combustion products in Section 5.

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

- : Fumes from heated product may irritate respiratory tract. In high concentrations, symptoms may include sore throat, sneezing, coughing and shortness of breath.

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

- : May cause mild irritation, redness and watering.

Potential Chronic Health Effects

- : May cause damage to the kidneys through prolonged or repeated exposure if swallowed.

Mutagenicity

- : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification Germ Cell Mutagenicity - Category 2 Suspected of causing genetic defects.

Carcinogenicity

- : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification Carcinogenicity- Category 2 Suspected of causing cancer.

Reproductive effects & Teratogenicity

- : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification Reproductive Toxicity - Category 2 Suspected of damaging fertility or the unborn child.

Senitization to material

- : This material is not classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012).

Specific target organ effects

- : This material is classified as hazardous under OSHA regulations (29CFR 1910.1200) (Hazcom 2012). Classification: Specific Target Organ Toxicity, Repeated Exposure - Category 2
May cause damage to the kidneys through prolonged or repeated exposure.

Not classified as a specific target organ toxicity-single exposure.



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Irritancy : Mild eye irritant. Mild skin irritant.

Medical conditions aggravated by overexposure

: Pre-existing skin and respiratory disorders.

Synergistic materials

: Not available.

Toxicological data

: No data is available on the product itself. See below for individual ingredient acute toxicity data.

<u>Chemical name</u>	<u>LC₅₀(4hr)</u> <u>inh, rat</u>	<u>LD₅₀</u>	
		<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Asphalt, oxidized	N/Av	>5000 mg/kg	N/Av
Ethylene glycol	4300 ppm (10.92 mg/L) (aerosol)	4000 mg/kg (rat) The estimated human lethal dose is: 1110 - 1665 mg/kg	9530 mg/kg
Crystalline silica	N/Av	N/Av	N/Av
Potassium hydroxide	N/Av	250 mg/kg	> 1260 mg/kg
Distillates, petroleum, solvent-dewaxed heavy paraffinic	>5 mg/L	>5000 mg/kg	>5000 mg/kg

Other important toxicological hazards

: None known or reported by the manufacturer.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

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>
Ethylene glycol	107-21-1	22 810 mg/L (Rainbow trout)	N/Av	None.
Potassium hydroxide	1310-58-3	80 mg/L (Mosquito fish)	N/Av	None.
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	>100 mg/L (Fathead minnow)	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>
Ethylene glycol	107-21-1	49 000 mg/L (Daphnia magna)	7500 - 15 000 mg/L	None.
Potassium hydroxide	1310-58-3	56 mg/L Ceriodaphnia (water flea)	N/Av	None.
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	n/av	n/av	none



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Ingredients	CAS No	Toxicity to Algae		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Ethylene glycol	107-21-1	6500 - 13 000 mg/L/96hr (Green algae)	10 000 mg/L/96hr	None.
Potassium hydroxide	1310-58-3	N/Av	N/Av	None.
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	>1000 mg/L/96 hours (Green algae)	n/av	none

- Persistence and degradability** : The product itself has not been tested.
- Bioaccumulation potential** : The product itself has not been tested.
- Mobility in soil** : The product itself has not been tested.
- Other Adverse Environmental effects** : None known.

SECTION 13. DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Handle waste according to recommendations in Section 7.
- Methods of Disposal** : Dispose in accordance with all applicable federal, state, provincial and local regulations.
- 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.

SECTION 14. TRANSPORTATION INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
49CFR/DOT	None.	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				
TDG	None.	Not regulated.	Not regulated	none	
TDG Additional information	None.				
ICAO/IATA	None.	Not regulated.	Not regulated	none	
ICAO/IATA Additional information	None.				

- Special precautions for user** : Appropriate advice on safety must accompany the package.
- Environmental hazards** : This substance does not meet the criteria for an environmentally hazardous substance according to the IMDG Code. See ECOLOGICAL INFORMATION, Section 12.



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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:

Ingredients	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	
					Toxic Chemical	de minimus Concentration
Asphalt, oxidized	64742-93-4	Yes	N/Ap	N/Av	No	N/Ap
Ethylene glycol	107-21-1	Yes	5000 lb/ 2270 kg	None.	Yes	1%
Crystalline silica	14808-60-7	Yes	None.	None.	No	N/Ap
Potassium hydroxide	1310-58-3	Yes	1000 lb/ 454 kg	None.	No	N/Ap
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	Yes	N/Ap	N/Av	No	N/Ap

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California Proposition 65		State "Right to Know" Lists					
		Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Asphalt, oxidized	64742-93-4	No	N/Ap	No	No	No	Yes	No	No
Ethylene glycol	107-21-1	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Crystalline silica	14808-60-7	Yes	orne particles of res	No	Yes	Yes	Yes	Yes	Yes
Potassium hydroxide	1310-58-3	No	N/Ap	Yes	Yes	Yes	Yes	Yes	Yes
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	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).

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

International Information:

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



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Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Asphalt, oxidized	64742-93-4	265-196-4	Present	Present	(9)-1719; (9)-1721	KE-01957	Present	No information available.
Ethylene glycol	107-21-1	203-473-3	Present	Present	(2)-230	KE-13169	Present	HSR001534
Crystalline silica	14808-60-7	238-878-4	Present	Present	(1)-548	KE-29983	Present	HSR003125
Potassium hydroxide	1310-58-3	215-181-3	Present	Present	(1)-369	KE-29139	Present	HSR001546
Distillates, petroleum, solvent-dewaxed heavy paraffinic	64742-65-0	265-169-7	Present	Present	(9)-1702	KE-12602	Present	No information available.

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
CFR: Code of Federal Regulations
DOT: Department of Transportation
EPA: Environmental Protection Agency
HMIS: Hazardous Materials Identification System
HSDB: Hazardous Substances Data Bank
IARC: International Agency for Research on Cancer
Inh: Inhalation
IUCLID: International Uniform Chemical Information Database
MA: Massachusetts
MN: Minnesota
mppcf: million particles per cubic foot
MSHA: Mine Safety and Health Administration
N/Ap: Not Applicable
N/Av: Not Available
NFFPA: National Fire Protection Association
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
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References

- : 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2014.
2. International Agency for Research on Cancer Monographs, searched 2014.
3. Canadian Centre for Occupational Health and Safety, CChInfoWeb databases, 2015 (Chempendium, HSDB and RTECs).
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists - October 2012
6. California Proposition 65 List - 26 December 2014



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Other special considerations for handling

: Provide adequate information, instruction and training for operators.

HMIS Rating

: * - Chronic hazard 0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

Health: 1 Flammability: 1 Reactivity: 0

NFPA Rating

0 - Minimal 1 - Slight 2 - Moderate 3 - Serious 4 - Severe

: Health: 1 Flammability: 1 Instability: 0 Special Hazards: None.

<p>Prepared for: Parker Hannifin Corporation Sporlan Division 206 Lange Drive, Washington, MO 63090 U.S.A. Telephone: (636) 239-1111 www.parker.com Direct all enquiries to: Parker Hannifin Corp. Sporlan Division.</p>	
<p>Prepared by: ICC The Compliance Center Inc. Telephone: (888) 442-9628 (U.S.); (888) 977-4834 (Canada) http://www.thecompliancecenter.com</p>	

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