



## Safety Data Sheet

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### SECTION 1: Identification

#### 1.1. Product identifier

7512L 3M™ ESPET™ VITREBOND™ GLASS IONOMER LIQUID

#### Product Identification Numbers

LE-F100-0244-2, LE-FSFD-4209-5, 70-2010-1332-6, 70-2010-5189-6, 70-2010-8919-3, FH-5000-4209-5

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Dental Product, Liner material

##### Restrictions on use

For use only by dental professionals

#### 1.3. Supplier's details

MANUFACTURER:	3M
DIVISION:	Oral Care Solutions Division
ADDRESS:	3M Center, St. Paul, MN 55144-1000, USA
Telephone:	1-888-3M HELPS (1-888-364-3577)

#### 1.4. Emergency telephone number

1-800-364-3577 or (651) 737-6501 (24 hours)

### SECTION 2: Hazard identification

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure.

#### 2.1. Hazard classification

Serious Eye Damage/Irritation: Category 2B.

Skin Sensitizer: Category 1.

#### 2.2. Label elements

Signal word

Warning

Symbols

Exclamation mark |

**Pictograms**



**Hazard Statements**

Causes eye irritation.  
May cause an allergic skin reaction.

**Precautionary Statements**

**Prevention:**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Wear protective gloves.  
Wash thoroughly after handling.  
Contaminated work clothing must not be allowed out of the workplace.

**Response:**

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.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.

**Disposal:**

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

**2.3. Hazards not otherwise classified**

None.

**SECTION 3: Composition/information on ingredients**

Ingredient	C.A.S. No.	% by Wt
COPOLYMER OF ACRYLIC AND ITACONIC ACIDS	25948-33-8	35 - 45 Trade Secret *
WATER	7732-18-5	30 - 40 Trade Secret *
2-HYDROXYETHYL METHACRYLATE (HEMA)	868-77-9	20 - 30 Trade Secret *

\*The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**Inhalation:**

Remove person to fresh air. If you feel unwell, get medical attention.

**Skin Contact:**

Immediately wash with soap and water. Remove contaminated clothing and wash before reuse. If signs/symptoms develop,

get medical attention.

**Eye Contact:**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If Swallowed:**

Rinse mouth. If you feel unwell, get medical attention.

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

See Section 11.1. Information on toxicological effects.

**4.3. Indication of any immediate medical attention and special treatment required**

Not applicable

**SECTION 5: Fire-fighting measures**

**5.1. Suitable extinguishing media**

Material will not burn.

**5.2. Special hazards arising from the substance or mixture**

None inherent in this product.

**Hazardous Decomposition or By-Products**

Substance

Carbon monoxide

Carbon dioxide

Condition

During Combustion

During Combustion

**5.3. Special protective actions for fire-fighters**

No special protective actions for fire-fighters are anticipated.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate the area with fresh air. Refer to other sections of this SDS for information regarding physical and health hazards, respiratory protection, ventilation, and personal protective equipment.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Working from around the edges of the spill inward, cover with bentonite, vermiculite, or commercially available inorganic absorbent material. Mix in sufficient absorbent until it appears dry. Remember, adding an absorbent material does not remove a physical, health, or environmental hazard. Collect as much of the spilled material as possible. Place in a closed container approved for transportation by appropriate authorities. Clean up residue with water. Seal the container. Dispose of collected material as soon as possible.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

A no-touch technique is recommended. If skin contact occurs, wash skin with soap and water. Acrylates may penetrate commonly-used gloves. If product contacts glove, remove and discard glove, wash hands immediately with soap and water and then re-glove. Avoid breathing dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing. Do not eat,

drink or smoke when using this product. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

#### 7.2. Conditions for safe storage including any incompatibilities

No special storage requirements.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

No occupational exposure limit values exist for any of the components listed in Section 3 of this SDS.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use in a well-ventilated area.

#### 8.2.2. Personal protective equipment (PPE)

##### Eye/face protection

Select and use eye/face protection to prevent contact based on the results of an exposure assessment. The following eye/face protection(s) are recommended:  
Safety Glasses with side shields

##### Skin/hand protection

See Section 7.1 for additional information on skin protection.

##### Respiratory protection

None required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

General Physical Form:	Liquid
Specific Physical Form:	Liquid
Odor, Color, Grade:	Slight characteristic odor, Clear to slightly yellow
Odor threshold	No Data Available
pH	2.5 - 3
Melting point	Not Applicable
Boiling Point	>= 212 °F
Flash Point	Flash point > 93 °C (200 °F)
Evaporation rate	No Data Available
Flammability (solid, gas)	Not Applicable
Flammable Limits(LEL)	Not Applicable
Flammable Limits(UEL)	Not Applicable
Vapor Pressure	<=16 psia [@ 131 °F]
Vapor Density	No Data Available
Density	1.2 g/ml
Specific Gravity	1.200 [Ref Std: WATER=1]
Solubility in Water	Complete
Solubility- non-water	No Data Available

Partition coefficient: n-octanol/ water	<i>Not Applicable</i>
Autoignition temperature	<i>Not Applicable</i>
Decomposition temperature	<i>No Data Available</i>
Viscosity	Approximately 300 centipoise
Molecular weight	<i>No Data Available</i>
Volatile Organic Compounds	<i>No Data Available</i>
Percent volatile	<i>No Data Available</i>
VOC Less H2O & Exempt Solvents	<i>No Data Available</i>

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

This material is considered to be non reactive under normal use conditions.

**10.2. Chemical stability**

Stable.

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

None known.

**10.6. Hazardous decomposition products**

<u>Substance</u>	<u>Condition</u>
None known.	

Refer to section 5.2 for hazardous decomposition products during combustion.

**SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labeling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

This document has been prepared in accordance with the U.S. OSHA Hazard Communication Standard, which requires the inclusion of all known hazards of the product or ingredients regardless of the potential risk. The risks of the hazards communicated in this document may vary depending on the potential for exposure. The information below represents toxicological information associated with the individual components of the uncured product. Once properly mixed and/or cured, the product is safe for its intended use.

**11.1. Information on Toxicological effects**

**Signs and Symptoms of Exposure**

Based on test data and/or information on the components, this material may produce the following health effects:

**Inhalation:**

This product may have a characteristic odor; however, no adverse health effects are anticipated.

**Skin Contact:**

Contact with the skin during product use is not expected to result in significant irritation. Allergic Skin Reaction (non-photo induced): Signs/symptoms may include redness, swelling, blistering, and itching.

**Eye Contact:**

Moderate Eye Irritation: Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

**Ingestion:**

Gastrointestinal Irritation: Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.

**Toxicological Data**

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

**Acute Toxicity**

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE > 5,000 mg/kg
COPOLYMER OF ACRYLIC AND ITACONIC ACIDS	Dermal	Professional judgement	LD50 estimated to be > 5,000 mg/kg
COPOLYMER OF ACRYLIC AND ITACONIC ACIDS	Ingestion	Rat	LD50 > 5,000 mg/kg
2-HYDROXYETHYL METHACRYLATE (HEMA)	Dermal	Rabbit	LD50 > 5,000 mg/kg
2-HYDROXYETHYL METHACRYLATE (HEMA)	Ingestion	Rat	LD50 5,564 mg/kg

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

Name	Species	Value
2-HYDROXYETHYL METHACRYLATE (HEMA)	Rabbit	Minimal irritation

**Serious Eye Damage/Irritation**

Name	Species	Value
2-HYDROXYETHYL METHACRYLATE (HEMA)	Rabbit	Moderate irritant

**Skin Sensitization**

Name	Species	Value
2-HYDROXYETHYL METHACRYLATE (HEMA)	Human and animal	Sensitizing

**Respiratory Sensitization**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Germ Cell Mutagenicity**

Name	Route	Value
2-HYDROXYETHYL METHACRYLATE (HEMA)	In vivo	Not mutagenic
2-HYDROXYETHYL METHACRYLATE (HEMA)	In Vitro	Some positive data exist, but the data are not sufficient for classification

**Carcinogenicity**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Reproductive Toxicity**

**Reproductive and/or Developmental Effects**

Name	Route	Value	Species	Test Result	Exposure Duration
2-HYDROXYETHYL METHACRYLATE (HEMA)	Ingestion	Not toxic to female reproduction	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation
2-HYDROXYETHYL METHACRYLATE (HEMA)	Ingestion	Not toxic to male reproduction	Rat	NOAEL 1,000 mg/kg/day	49 days
2-HYDROXYETHYL METHACRYLATE (HEMA)	Ingestion	Not toxic to development	Rat	NOAEL 1,000 mg/kg/day	prematuring & during gestation

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

Name	Route	Target Organ(s)	Value	Species	Test Result	Exposure Duration
COPOLYMER OF ACRYLIC AND ITACONIC ACIDS	Ingestion	nervous system	Some positive data exist, but the data are not sufficient for classification	Rat	NOAEL 5,000 mg/kg	

**Specific Target Organ Toxicity - repeated exposure**

For the component/components, either no data are currently available or the data are not sufficient for classification.

**Aspiration Hazard**

For the component/components, either no data are currently available or the data are not sufficient for classification.

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**SECTION 12: Ecological information****Ecotoxicological information**

Please contact the address or phone number listed on the first page of the SDS for additional ecotoxicological information on this material and/or its components.

**Chemical fate information**

Please contact the address or phone number listed on the first page of the SDS for additional chemical fate information on this material and/or its components.

**SECTION 13: Disposal considerations****13.1. Disposal methods**

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

Dispose of waste product in a permitted industrial waste facility.

EPA Hazardous Waste Number (RCRA): Not regulated

**SECTION 14: Transport Information**

For Transport Information, please visit <http://3M.com/Transportinfo> or call 1-800-364-3577 or 651-737-6501.

**SECTION 15: Regulatory information**

### 15.1. US Federal Regulations

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - Yes Delayed Hazard - No

### 15.2. State Regulations

Contact 3M for more information.

### 15.3. Chemical Inventories

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

### 15.4. International Regulations

Contact 3M for more information.

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

## SECTION 16: Other information

#### NFPA Hazard Classification

Health: 2 Flammability: 0 Instability: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

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**SECTION 1: IDENTIFICATION****Product Identifier**

Product Name: VARNISH SODIUM FLUORIDE 5%

**Other Means of Identification**

Product Item Code(s): 10011-US, 10033-CN, SP-1017, SP-1030, 1011-BG32, 1011-BG200, 1011-RB32, 1011-RB200, 1033-BG32, 1015-CM32, 1015-CM250, 1015-CINM32, 1015-CINM250, 1015-MM32, 1015-MM250, 1015-SM32, 1015-SM250, 1015-WB32, 1015-WB250, 1030-SM32, 1030-SM250, 1030-WB32, 1030-WB250, 1030-CM32, 1030-CM250, 1030CINM32, 1030-CINM250, 1030-MM32, 1030-MM250

**Recommended use of the chemical and restriction on use**

Recommended Use: Dental Product

Restrictions on Use: For professional use only. Do not swallow.

**Name, address, telephone number of the supplier:**Company Address: A.R. Medicom, Inc.  
1200 55<sup>th</sup> Ave  
Lachine, Quebec H8T 3J8  
Canada

Information Telephone Number: 514-636-6262

**Emergency Telephone Number:** 1-800-361-2862**SECTION 2: HAZARD(S) IDENTIFICATION****GHS Classification**

- Flammable liquid category 2.
- Acute Toxicity category 3.
- Eye Irritant category 2.
- Skin Sensitizer category 1.

**Signal Word:** Danger**Hazard Statements:**

Highly flammable liquid and vapor.

Harmful if swallowed.

Causes serious eye irritation.

**Pictograms:**Flammable Harmful  
Irritant



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**Precautionary Statements:**

Keep away from heat. Sparks, open flames, and hot surfaces. No smoking.

Keep out of the reach of children.

Wash hands thoroughly after handling.

**Hazards not otherwise classified:** None

**Unknown Acute Toxicity:** No ingredient with unknown toxicity.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Ingredients	CAS No./ EINECS No.	Percent (By Weight)
Ethanol	64-17-5/200-578-6	10-35%
Sodium Fluoride	7681-49-4/231-667-8	4-6%
Synthetic Resin	68990-02-3/273-574-5	50-70%

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush eyes with large quantities of water for at least 15 minutes, holding the eyelids apart. Get medical attention if irritation develops or persists.

**Skin Contact:** Wash skin with plenty of soap and water. Get medical attention if irritation develops.

**Ingestion:** Do not induce vomiting. If conscious, rinse out mouth with water and give copious amounts of milk, or water if milk is not available. Never give anything by mouth to an unconscious person. If symptoms persist, get immediate medical attention.

**Inhalation:** Move victim to fresh air. If breathing is difficult have qualified personnel administer oxygen. Get medical attention if irritation persists.

**Most Important symptoms/effects, acute and delayed:**

May cause eye and skin irritation. May cause skin sensitization. May be harmful if swallowed.

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

No information available.

**SECTION 5: FIRE FIGHTING MEASURES**

**Suitable Extinguishing Media:** Use media appropriate for the surrounding fire.

**Unsuitable Extinguishing Media:** None known.

**Specific hazards arising from the chemical:** Highly flammable liquid and vapor.

**Special Protective equipment and precautions for firefighters:** Firefighters should wear full emergency equipment and positive pressure self-contained breathing apparatus.

**Unusual Fire/Explosion Hazards:** None under normal conditions of use.

**Known or Anticipated Hazardous Products of Combustion:** Carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Avoid contact with eyes, skin and clothing. Use appropriate protective equipment as described in Section 8.

**Environmental Precautions:** Prevent spill from entering waterways.

**Methods and materials for containment and cleaning up:** Wipe up or collect using an inert absorbent material and place in appropriate containers for disposal. Rinse spill area with water. Prevent spill from entering sewers and water courses. Report releases as required by local, state and federal authorities.

**SECTION 7: HANDLING AND STORAGE**

**Precautions for safe handling:** Avoid contact with the eyes, skin and clothing. Wear protective clothing and equipment as described in Section 8. Wash thoroughly with soap and water after handling. Keep containers tightly closed when not in use.

Do not reuse containers. Empty containers retain product residues that can be hazardous. Follow all safety precautions when handling empty containers.

**Conditions for safe storage including any incompatibilities:** Store between 15-30°C (59°F-86°F). Keep out of direct sunlight. Keep away from heat and ignition sources. Keep out of reach of children. Store away from strong acids and oxidizing materials.

**SECTION 8: EXPOSURE CONTROLS/ PERSONAL PROTECTION**

**Exposure Control Parameters:** The parameters are not provided for the product itself. They are provided for the ingredients listed below:

**Occupational Exposure Limits:**

Sodium Fluoride (as Fluoride)	2.5mg/m <sup>3</sup> TWA ACGIH 2.5mg/ m <sup>3</sup> TWA OSHA
Ethanol	1000 ppm STEL ACGIH 1900 mg/m <sup>3</sup> TWA OSHA

**Appropriate Engineering Controls:** No special ventilation normally required. For bulk handling, use ventilation that is adequate to maintain exposure levels below the occupational exposure limits.

**Individual Protection Measures:****Personal Protective Equipment**

**Eye Protection:** Safety glasses recommended.

**Skin Protection:** Wear impervious gloves.

**Respiratory Protection:** None should be needed for normal use. If the exposure limits are exceeded an approved respirator with particulate cartridges or air respirator appropriate for the form and concentration of the contaminants should be used. Selection and use of respiratory equipment must be in accordance with applicable regulations and good industrial hygiene practice.

**Other Protective Clothing or Equipment:** None needed for normal use. Impervious clothing as needed to avoid contamination of personal clothing for bulk handling.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Off white to yellow colored liquid.

**Odor:** Characteristic

**Odor Threshold:** Not available

**pH:** Not available

**Melting Point:** Not applicable

**Freezing Point:** Not available

**Boiling Point/Range:** Not available

**Flashpoint:** Not available

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Upper/lower flammability or explosive limits:**

LEL: Not available

UEL: Not available

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Relative Density:** Not available

**Solubility in water:** Slightly soluble

**Partition coefficient**

**(n-octanol/water):** Not available

**Autoignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

**SECTION 10: STABILITY AND REACTIVITY**

**Reactivity:** None known

**Chemical Stability:** Stable

**Possibility of Hazardous Reactions:** None under normal conditions of use

**Conditions to Avoid:** Keep away from ignition sources.

**Incompatible Materials:** Avoid oxidizing agents and strong acids.

**Hazardous Decomposition Products:** May produce carbon monoxide, carbon dioxide and toxic fumes.

**SECTION 11: TOXICOLOGICAL INFORMATION****Information on Toxicological Effects**

Toxicological data not available for the product itself. The data provided are for the ingredients listed below.

Sodium Fluoride: Oral rat LD<sub>50</sub>: 52 mg/kg

Ethanol: Oral rat LD<sub>50</sub>: 7060 mg/kg

**Likely Routes of Exposure and the Symptoms related to the Physical, Chemical and Toxicological****Characteristics:**

**Eyes:** Direct contact causes eye irritation.

**Skin:** Prolonged skin contact may cause irritation.

**Inhalation:** No adverse effects expected, under normal conditions of use.

**Ingestion:** May cause salivation, nausea, vomiting, abdominal pain, headaches, or dizziness.

**Chronic Health Effects:** Not expected under normal conditions of use. Repeated overexposure to Sodium Fluoride may cause fluorosis.

**Mutagenicity:** No data available.

**Carcinogenicity:** Not known to be as carcinogen or potential carcinogen by NTP (National Toxicological Program), IARC (International Agency for the Research of Cancer) or OSHA (Occupational Safety and Health Administration). Carcinogenicity of ethanol is only applicable when it is present in alcoholic beverages only.

**Medical Conditions Aggravated by Exposure:** Individuals with pre-existing skin and respiratory disease may be at increased risk from exposure.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

Ecological data not available for the product itself. The data provided are for the ingredients listed below:

Sodium Fluoride: 96 hrs. LC<sub>50</sub> rainbow trout: 51-108 mg/L

Ethanol: 96 hrs. LC<sub>50</sub> rainbow trout: >10,000 mg/L

**Persistence and degradability**

No information available

**Bioaccumulative Potential:** No data available

**Mobility in soil:**

No data available

**Other adverse effects:**

No information available



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**SECTION 13: DISPOSAL CONSIDERATIONS**

Dispose in accordance with national and local regulations.

**SECTION 14: TRANSPORT INFORMATION**

\*Please refer to your local, state and national transport regulations as limited quantity exceptions may apply for the product as supplied, before the use of the information provided in this section.

**DOT (US)**

**Proper Shipping Name:** Ethanol solutions

**Hazard Class:** 3

**UN Number:** UN 1170

**Packing Group:** II

**Air (IATA/ICAO)**

**Proper Shipping Name:** Ethanol solutions

**Hazard Class:** 3

**UN Number:** UN 1170

**Packing Group:** II

**IMO/IMDG**

**Proper Shipping Name:** Ethanol solutions

**Hazard Class:** 3

**UN Number:** UN 1170

**Packing Group:** II

**SECTION 15: REGULATORY INFORMATION**

**U.S. FEDERAL REGULATIONS:**

**SARA TITLE III:**

**Hazard Category for Section 311/312:** Acute Health, Fire Hazard.

**Section 313 Toxic Chemicals:** This product contains the following chemicals subject to Annual Release Reporting Requirements under SARA Title III, Section 313 (40 CFR 372): None at or above reportable quantity.

**Section 302 extremely hazardous Substances (TPQ):** None at or above reportable quantity

**EPA Toxic Substances Control Act (TSCA) Status:** This product is a medical device and not subject to chemical notification requirements.



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Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

**SECTION 16: OTHER INFORMATION**

Risk phrases used in section 2: Not Applicable

Date of preparation of SDS: December 12, 2014

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.

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