

SAFETY DATA SHEET

Ethanol Calibration Kit, Part Number G3440-85036

Section 1. Identification

1.1 Product identifier

Product name : Ethanol Calibration Kit, Part Number G3440-85036

Part no. (chemical kit) : G3440-85036

Part no. : Ethanol Calibration Standard # 1 (500 ug/ mL) G3440-85036-1
 Ethanol Calibration Standard # 2 (800 ug/ mL) G3440-85036-2
 Ethanol Calibration Standard # 3 (1000 ug/ mL) G3440-85036-3
 Ethanol Calibration Standard # 4 (2000 ug/ mL) G3440-85036-4
 Ethanol Calibration Standard # 5 (3000 ug/ mL) G3440-85036-5

Validation date : 7/19/2018

1.2 Relevant identified uses of the substance or mixture and uses advised against

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
 1.2 ml/ampoule

Ethanol Calibration Standard # 1 (500 ug/mL)	1.2 ml
Ethanol Calibration Standard # 2 (800 ug/mL)	1.2 ml
Ethanol Calibration Standard # 3 (1000 ug/mL)	1.2 ml
Ethanol Calibration Standard # 4 (2000 ug/mL)	1.2 ml
Ethanol Calibration Standard # 5 (3000 ug/mL)	1.2 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : <input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Ethanol Calibration Standard # 2 (800 ug/mL)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
Ethanol Calibration Standard # 3 (1000 ug/mL)	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to

Section 2. Hazards identification

Ethanol Calibration
Standard # 4 (2000 ug/mL)

the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Ethanol Calibration
Standard # 5 (3000 ug/mL)

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word

- : Ethanol Calibration Standard # 1 (500 ug/mL) No signal word.
- Ethanol Calibration Standard # 2 (800 ug/mL) No signal word.
- Ethanol Calibration Standard # 3 (1000 ug/mL) No signal word.
- Ethanol Calibration Standard # 4 (2000 ug/mL) No signal word.
- Ethanol Calibration Standard # 5 (3000 ug/mL) No signal word.

Hazard statements

- : Ethanol Calibration Standard # 1 (500 ug/mL) No known significant effects or critical hazards.
- Ethanol Calibration Standard # 2 (800 ug/mL) No known significant effects or critical hazards.
- Ethanol Calibration Standard # 3 (1000 ug/mL) No known significant effects or critical hazards.
- Ethanol Calibration Standard # 4 (2000 ug/mL) No known significant effects or critical hazards.
- Ethanol Calibration Standard # 5 (3000 ug/mL) No known significant effects or critical hazards.

Precautionary statements

Prevention

- : Ethanol Calibration Standard # 1 (500 ug/mL) Not applicable.
- Ethanol Calibration Standard # 2 (800 ug/mL) Not applicable.
- Ethanol Calibration Standard # 3 (1000 ug/mL) Not applicable.
- Ethanol Calibration Standard # 4 (2000 ug/mL) Not applicable.
- Ethanol Calibration Standard # 5 (3000 ug/mL) Not applicable.

Section 2. Hazards identification

Response	:	<input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 2 (800 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 3 (1000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 4 (2000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 5 (3000 ug/mL)	Not applicable.
Storage	:	<input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 2 (800 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 3 (1000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 4 (2000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 5 (3000 ug/mL)	Not applicable.
Disposal	:	<input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 2 (800 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 3 (1000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 4 (2000 ug/mL)	Not applicable.
		Ethanol Calibration Standard # 5 (3000 ug/mL)	Not applicable.
Supplemental label elements	:	<input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	None known.
		Ethanol Calibration Standard # 2 (800 ug/mL)	None known.
		Ethanol Calibration Standard # 3 (1000 ug/mL)	None known.
		Ethanol Calibration Standard # 4 (2000 ug/mL)	None known.
		Ethanol Calibration Standard # 5 (3000 ug/mL)	None known.
<u>2.3 Other hazards</u>			
Hazards not otherwise classified	:	<input checked="" type="checkbox"/> Ethanol Calibration Standard # 1 (500 ug/mL)	None known.
		Ethanol Calibration Standard # 2 (800 ug/mL)	None known.
		Ethanol Calibration Standard # 3 (1000 ug/mL)	None known.
		Ethanol Calibration Standard # 4 (2000 ug/mL)	None known.
		Ethanol Calibration Standard # 5 (3000 ug/mL)	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Ethanol Calibration Standard # 1 (500 ug/mL)	Mixture
	Ethanol Calibration Standard # 2 (800 ug/mL)	Mixture
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Mixture
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Mixture
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Mixture

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Ethanol Calibration Standard # 1 (500 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Section 4. First aid measures

Skin contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Ethanol Calibration Standard # 1 (500 ug/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Section 4. First aid measures

Eye contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Inhalation	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Skin contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Ingestion	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.

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Inhalation	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
Skin contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
Ingestion	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	: Ethanol Calibration Standard # 1 (500 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific treatment.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific treatment.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific treatment.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific treatment.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific treatment.

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Protection of first-aiders	: Ethanol Calibration Standard # 1 (500 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Ethanol Calibration Standard # 1 (500 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Ethanol Calibration Standard # 1 (500 ug/mL)	None known.
	Ethanol Calibration Standard # 2 (800 ug/mL)	None known.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	None known.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	None known.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: Ethanol Calibration Standard # 1 (500 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ethanol Calibration Standard # 2 (800 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.

Section 5. Fire-fighting measures

(3000 ug/mL)

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Ethanol Calibration Standard # 1
(500 ug/mL)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Ethanol Calibration Standard # 2
(800 ug/mL)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Ethanol Calibration Standard # 3
(1000 ug/mL)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Ethanol Calibration Standard # 4
(2000 ug/mL)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Ethanol Calibration Standard # 5
(3000 ug/mL)

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Ethanol Calibration Standard # 1
(500 ug/mL)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Ethanol Calibration Standard # 2
(800 ug/mL)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Ethanol Calibration Standard # 3
(1000 ug/mL)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Ethanol Calibration Standard # 4
(2000 ug/mL)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Ethanol Calibration Standard # 5
(3000 ug/mL)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: Ethanol Calibration Standard # 1
(500 ug/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

Ethanol Calibration Standard # 2
(800 ug/mL)

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on

Section 6. Accidental release measures

Ethanol Calibration Standard # 3 (1000 ug/mL)	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Ethanol Calibration Standard # 4 (2000 ug/mL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
Ethanol Calibration Standard # 5 (3000 ug/mL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.
For emergency responders : Ethanol Calibration Standard # 1 (500 ug/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Ethanol Calibration Standard # 2 (800 ug/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Ethanol Calibration Standard # 3 (1000 ug/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Ethanol Calibration Standard # 4 (2000 ug/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Ethanol Calibration Standard # 5 (3000 ug/mL)	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions : Ethanol Calibration Standard # 1 (500 ug/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ethanol Calibration Standard # 2 (800 ug/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ethanol Calibration Standard # 3 (1000 ug/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Ethanol Calibration Standard # 4 (2000 ug/mL)	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has

Section 6. Accidental release measures

Ethanol Calibration Standard # 5
(3000 ug/mL)

caused environmental pollution (sewers, waterways, soil or air).
Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Ethanol Calibration Standard # 1
(500 ug/mL)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ethanol Calibration Standard # 2
(800 ug/mL)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ethanol Calibration Standard # 3
(1000 ug/mL)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ethanol Calibration Standard # 4
(2000 ug/mL)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Ethanol Calibration Standard # 5
(3000 ug/mL)

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures : Ethanol Calibration Standard # 1
(500 ug/mL)
Ethanol Calibration Standard # 2
(800 ug/mL)
Ethanol Calibration Standard # 3
(1000 ug/mL)
Ethanol Calibration Standard # 4
(2000 ug/mL)
Ethanol Calibration Standard # 5
(3000 ug/mL)

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8).

Section 7. Handling and storage

Advice on general occupational hygiene	: Ethanol Calibration Standard # 1 (500 ug/mL)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Ethanol Calibration Standard # 1 (500 ug/mL)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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Ethanol Calibration Standard # 3 (1000 ug/mL)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Ethanol Calibration Standard # 4 (2000 ug/mL)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
Ethanol Calibration Standard # 5 (3000 ug/mL)	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations

: Ethanol Calibration Standard # 1 (500 ug/mL)	Industrial applications, Professional applications.
Ethanol Calibration Standard # 2 (800 ug/mL)	Industrial applications, Professional applications.
Ethanol Calibration Standard # 3 (1000 ug/mL)	Industrial applications, Professional applications.
Ethanol Calibration Standard # 4 (2000 ug/mL)	Industrial applications, Professional applications.
Ethanol Calibration Standard # 5 (3000 ug/mL)	Industrial applications, Professional applications.

Industrial sector specific solutions

: Ethanol Calibration Standard # 1 (500 ug/mL)	Not applicable.
Ethanol Calibration Standard # 2 (800 ug/mL)	Not applicable.
Ethanol Calibration Standard # 3 (1000 ug/mL)	Not applicable.
Ethanol Calibration Standard # 4 (2000 ug/mL)	Not applicable.
Ethanol Calibration Standard # 5 (3000 ug/mL)	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state

Ethanol Calibration Standard # 1 (500 ug/mL)	Liquid.
Ethanol Calibration Standard # 2 (800 ug/mL)	Liquid.
Ethanol Calibration Standard # 3 (1000 ug/mL)	Liquid.
Ethanol Calibration Standard # 4 (2000 ug/mL)	Liquid.
Ethanol Calibration Standard # 5 (3000 ug/mL)	Liquid.

Section 9. Physical and chemical properties

Color	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Odor	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Odor threshold	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
pH	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Melting point	: Ethanol Calibration Standard # 1 (500 ug/mL)	0°C (32°F)
	Ethanol Calibration Standard # 2 (800 ug/mL)	0°C (32°F)
	Ethanol Calibration Standard # 3 (1000 ug/mL)	0°C (32°F)
	Ethanol Calibration Standard # 4 (2000 ug/mL)	0°C (32°F)
	Ethanol Calibration Standard # 5 (3000 ug/mL)	0°C (32°F)
Boiling point	: Ethanol Calibration Standard # 1 (500 ug/mL)	100°C (212°F)
	Ethanol Calibration Standard # 2 (800 ug/mL)	100°C (212°F)
	Ethanol Calibration Standard # 3 (1000 ug/mL)	100°C (212°F)
	Ethanol Calibration Standard # 4	100°C (212°F)

Section 9. Physical and chemical properties

	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	100°C (212°F)
	(3000 ug/mL)	
Flash point	: Ethanol Calibration Standard # 1	Not available.
	(500 ug/mL)	
	Ethanol Calibration Standard # 2	Not available.
	(800 ug/mL)	
	Ethanol Calibration Standard # 3	Not available.
	(1000 ug/mL)	
	Ethanol Calibration Standard # 4	Not available.
	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	Not available.
	(3000 ug/mL)	
Evaporation rate	: Ethanol Calibration Standard # 1	Not available.
	(500 ug/mL)	
	Ethanol Calibration Standard # 2	Not available.
	(800 ug/mL)	
	Ethanol Calibration Standard # 3	Not available.
	(1000 ug/mL)	
	Ethanol Calibration Standard # 4	Not available.
	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	Not available.
	(3000 ug/mL)	
Flammability (solid, gas)	: Ethanol Calibration Standard # 1	Not applicable.
	(500 ug/mL)	
	Ethanol Calibration Standard # 2	Not applicable.
	(800 ug/mL)	
	Ethanol Calibration Standard # 3	Not applicable.
	(1000 ug/mL)	
	Ethanol Calibration Standard # 4	Not applicable.
	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	Not applicable.
	(3000 ug/mL)	
Lower and upper explosive (flammable) limits	: Ethanol Calibration Standard # 1	Not available.
	(500 ug/mL)	
	Ethanol Calibration Standard # 2	Not available.
	(800 ug/mL)	
	Ethanol Calibration Standard # 3	Not available.
	(1000 ug/mL)	
	Ethanol Calibration Standard # 4	Not available.
	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	Not available.
	(3000 ug/mL)	
Vapor pressure	: Ethanol Calibration Standard # 1	Not available.
	(500 ug/mL)	
	Ethanol Calibration Standard # 2	Not available.
	(800 ug/mL)	
	Ethanol Calibration Standard # 3	Not available.
	(1000 ug/mL)	
	Ethanol Calibration Standard # 4	Not available.
	(2000 ug/mL)	
	Ethanol Calibration Standard # 5	Not available.
	(3000 ug/mL)	
Vapor density	:	

Section 9. Physical and chemical properties

	Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Relative density	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Solubility	: Ethanol Calibration Standard # 1 (500 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Auto-ignition temperature	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Decomposition temperature	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4	Not available.

Section 9. Physical and chemical properties

	(2000 ug/mL) Ethanol Calibration Standard # 5	Not available.
	(3000 ug/mL)	
Viscosity	: Ethanol Calibration Standard # 1 (500 ug/mL)	Not available.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Not available.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Not available.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Ethanol Calibration Standard # 1 (500 ug/mL)	The product is stable.
	Ethanol Calibration Standard # 2 (800 ug/mL)	The product is stable.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	The product is stable.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	The product is stable.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	The product is stable.
10.3 Possibility of hazardous reactions	: Ethanol Calibration Standard # 1 (500 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5	No specific data.

Section 10. Stability and reactivity

(3000 ug/mL)

10.5 Incompatible materials	: Ethanol Calibration Standard # 1 (500 ug/mL)	May react or be incompatible with oxidizing materials.
	Ethanol Calibration Standard # 2 (800 ug/mL)	May react or be incompatible with oxidizing materials.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	May react or be incompatible with oxidizing materials.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	May react or be incompatible with oxidizing materials.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Ethanol Calibration Standard # 1 (500 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethanol Calibration Standard # 2 (800 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Section 11. Toxicological information

Not available.

Information on the likely routes of exposure	<ul style="list-style-type: none"> : Ethanol Calibration Standard # 1 (500 ug/mL) : Ethanol Calibration Standard # 2 (800 ug/mL) : Ethanol Calibration Standard # 3 (1000 ug/mL) : Ethanol Calibration Standard # 4 (2000 ug/mL) : Ethanol Calibration Standard # 5 (3000 ug/mL) 	<ul style="list-style-type: none"> Not available. Not available. Not available. Not available. Not available.
Potential acute health effects		
Eye contact	<ul style="list-style-type: none"> : Ethanol Calibration Standard # 1 (500 ug/mL) : Ethanol Calibration Standard # 2 (800 ug/mL) : Ethanol Calibration Standard # 3 (1000 ug/mL) : Ethanol Calibration Standard # 4 (2000 ug/mL) : Ethanol Calibration Standard # 5 (3000 ug/mL) 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	<ul style="list-style-type: none"> : Ethanol Calibration Standard # 1 (500 ug/mL) : Ethanol Calibration Standard # 2 (800 ug/mL) : Ethanol Calibration Standard # 3 (1000 ug/mL) : Ethanol Calibration Standard # 4 (2000 ug/mL) : Ethanol Calibration Standard # 5 (3000 ug/mL) 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	<ul style="list-style-type: none"> : Ethanol Calibration Standard # 1 (500 ug/mL) : Ethanol Calibration Standard # 2 (800 ug/mL) : Ethanol Calibration Standard # 3 (1000 ug/mL) : Ethanol Calibration Standard # 4 (2000 ug/mL) : Ethanol Calibration Standard # 5 (3000 ug/mL) 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	<ul style="list-style-type: none"> : Ethanol Calibration Standard # 1 (500 ug/mL) : Ethanol Calibration Standard # 2 (800 ug/mL) : Ethanol Calibration Standard # 3 (1000 ug/mL) : Ethanol Calibration Standard # 4 (2000 ug/mL) : Ethanol Calibration Standard # 5 (3000 ug/mL) 	<ul style="list-style-type: none"> No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Section 11. Toxicological information

Eye contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
Inhalation	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
Skin contact	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
Ingestion	: Ethanol Calibration Standard # 1 (500 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 2 (800 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 3 (1000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	: Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Section 11. Toxicological information

General	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Carcinogenicity	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Mutagenicity	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Teratogenicity	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Developmental effects	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
Fertility effects	: Ethanol Calibration Standard # 1 (500 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 2 (800 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	No known significant effects or critical hazards.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	No known significant effects or critical hazards.

Section 11. Toxicological information

Ethanol Calibration Standard # 5 No known significant effects or critical hazards.
(3000 ug/mL)

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

12.5 Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / IATA : Not regulated.

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL and the IBC Code : Not available.

Section 15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification :

Ethanol Calibration Standard # 1 (500 ug/mL)	Not applicable.
Ethanol Calibration Standard # 2 (800 ug/mL)	Not applicable.
Ethanol Calibration Standard # 3 (1000 ug/mL)	Not applicable.
Ethanol Calibration Standard # 4 (2000 ug/mL)	Not applicable.
Ethanol Calibration Standard # 5 (3000 ug/mL)	Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

Section 15. Regulatory information

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted.
Malaysia	: All components are listed or exempted.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: All components are listed or exempted.
Taiwan	: All components are listed or exempted.
Thailand	: <input checked="" type="checkbox"/> Not determined.
Turkey	: <input checked="" type="checkbox"/> All components are listed or exempted.
United States	: All components are listed or exempted.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

History

Date of issue	: 07/19/2018
Date of previous issue	: 07/28/2016
Version	: 4

Procedure used to derive the classification

Classification	Justification
Not classified.	

Indicates information that has changed from previously issued version.

Notice to reader

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