

SAFETY DATA SHEET



Ethanol Calibration Kit, Part Number G3440-85036

SECTION 1: Identification of the substance/mixture and of the company/undertaking

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

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

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	:	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

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 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

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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.
Response	: 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	: 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	: 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.

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SECTION 2: Hazards identification

Supplemental label elements	: 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.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: 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.

Special packaging requirements

Tactile warning of danger	: 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.

2.3 Other hazards

Other hazards which do not result in classification	: 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.

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SECTION 2: Hazards identification

Ethanol Calibration Standard # 5 (3000 ug/mL) None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	:	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

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of 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.

Date of issue/Date of revision : 19/07/2018

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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.
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.

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SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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	No known significant effects or critical hazards.

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Standard # 5 (3000 ug/
mL)

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.
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.

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Ethanol Calibration Standard # 5 (3000 ug/mL) No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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.

SECTION 5: Firefighting 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.

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SECTION 5: Firefighting measures

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

Hazards from the substance or mixture	: 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 combustion 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.

5.3 Advice for firefighters

Special precautions 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
	: 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

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

mL) Ethanol Calibration Standard # 5 (3000 ug/ mL)	:	Ethanol Calibration Standard # 1 (500 ug/ mL)	taken involving any personal risk or without suitable training. 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. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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 spilt 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 spilt material. Put on appropriate personal protective equipment.
	Ethanol Calibration Standard # 3 (1000 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 spilt 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 spilt 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 spilt material. Put on

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For emergency responders

- : 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)

appropriate personal protective equipment.

If specialised 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".

If specialised 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".

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If specialised 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)
- 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)

Avoid dispersal of spilt 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).

Avoid dispersal of spilt 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).

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Avoid dispersal of spilt 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).

Avoid dispersal of spilt 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 material for containment and cleaning up

Methods for cleaning up

- : Ethanol Calibration Standard # 1 (500 ug/mL)
- Ethanol Calibration Standard # 2 (800 ug/mL)
- Ethanol Calibration Standard # 3 (1000 ug/mL)
- Ethanol Calibration

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.

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.

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.

Stop leak if without risk. Move containers from spill area.

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Standard # 4 (2000 ug/mL)	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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Ethanol Calibration Standard # 1 (500 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	Ethanol Calibration Standard # 2 (800 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	Ethanol Calibration Standard # 3 (1000 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	Ethanol Calibration Standard # 4 (2000 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Put on appropriate personal protective equipment (see Section 8).

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 7: Handling and storage

Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

<input checked="" type="checkbox"/> 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
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 unlabelled 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 unlabelled 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

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SECTION 7: Handling and storage

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

No exposure limit value known.

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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SECTION 8: Exposure controls/personal protection

- 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.
- 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.

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.
- Colour** : 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.

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SECTION 9: Physical and chemical properties

	mL)	
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.
Odour	: 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.
Odour 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/freezing point	: Ethanol Calibration Standard # 1 (500 ug/mL)	0°C
	Ethanol Calibration Standard # 2 (800 ug/mL)	0°C
	Ethanol Calibration Standard # 3 (1000 ug/mL)	0°C
	Ethanol Calibration Standard # 4 (2000 ug/mL)	0°C

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	Ethanol Calibration Standard # 5 (3000 ug/mL)	0°C
Initial boiling point and boiling range	: Ethanol Calibration Standard # 1 (500 ug/mL)	100°C
	Ethanol Calibration Standard # 2 (800 ug/mL)	100°C
	Ethanol Calibration Standard # 3 (1000 ug/mL)	100°C
	Ethanol Calibration Standard # 4 (2000 ug/mL)	100°C
	Ethanol Calibration Standard # 5 (3000 ug/mL)	100°C
Flash point	: 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.
Evaporation rate	: 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.
Flammability (solid, gas)	: 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	Not applicable.

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	Standard # 5 (3000 ug/ mL)	
Upper/lower flammability or explosive limits	: 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)	Not available. Not available. Not available. Not available. Not available. Not available.
Vapour pressure	: 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)	Not available. Not available. Not available. Not available. Not available.
Vapour density	: 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)	Not available. Not available. Not available. Not available. Not available.
Relative density	: 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	Not available. Not available. Not available. Not available. Not available.

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SECTION 9: Physical and chemical properties

	Standard # 5 (3000 ug/mL)	
Solubility(ies)	: 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 (2000 ug/mL)	Not available.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	Not available.

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SECTION 9: Physical and chemical properties

	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.
Explosive 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.
Oxidising 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.

9.2 Other information

No additional information.

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.

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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 # 1 (500 ug/mL) The product is stable.

Ethanol Calibration Standard # 2 (800 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 # 3 (1000 ug/mL) The product is stable.

Ethanol Calibration Standard # 4 (2000 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.

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 # 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 # 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 # 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 # 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.

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 # 1 (500 ug/mL) No specific data.

Ethanol Calibration Standard # 2 (800 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 # 3 (1000 ug/mL) No specific data.

Ethanol Calibration Standard # 4 (2000 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.

Ethanol Calibration Standard # 5 (3000 ug/mL) No specific data.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Ethanol Calibration Standard # 1 (500 ug/mL)	May react or be incompatible with oxidising materials.
	Ethanol Calibration Standard # 2 (800 ug/mL)	May react or be incompatible with oxidising materials.
	Ethanol Calibration Standard # 3 (1000 ug/mL)	May react or be incompatible with oxidising materials.
	Ethanol Calibration Standard # 4 (2000 ug/mL)	May react or be incompatible with oxidising materials.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	May react or be incompatible with oxidising 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.

Acute toxicity estimates

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : 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)

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Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: 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.

Potential acute health effects

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.

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.

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	No known significant effects or critical hazards.

SECTION 11: Toxicological information

	Standard # 4 (2000 ug/mL)	
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No known significant effects or critical hazards.
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.

Symptoms related to the physical, chemical and toxicological characteristics

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.
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.
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.

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	Ethanol Calibration Standard # 4 (2000 ug/mL)	No specific data.
	Ethanol Calibration Standard # 5 (3000 ug/mL)	No specific data.
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.

Delayed and immediate effects as well as 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

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	No known significant effects or critical hazards.

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	Standard # 4 (2000 ug/mL)	
	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.

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SECTION 11: Toxicological information

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

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : 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.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 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.

14.7 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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : 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.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

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.

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SECTION 15: Regulatory information

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.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

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Notice to reader

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