

SAFETY DATA SHEET



Multicomponent Alcohol Calibration Kit, Part Number G3440-85035

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

1.1 Product identifier

Product name : Multicomponent Alcohol Calibration Kit, Part Number G3440-85035
Part no. (chemical kit) : G3440-85035
Part no. : Alcohol Calibration Standard Mix # 1 (500 ug/mL) G3440-85035-1
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) G3440-85035-2
Alcohol Calibration Standard Mix # 3 (4000 ug/mL) G3440-85035-3

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

Material uses : Reagents and Standards for Analytical Chemistry Laboratory Use
Alcohol Calibration Standard Mix # 1 (500 ug/mL) 1.2 ml
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) 1.2 ml
Alcohol Calibration Standard Mix # 3 (4000 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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Alcohol Calibration Standard Mix # 1 (500 ug/mL) Mixture
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Mixture
Alcohol Calibration Standard Mix # 3 (4000 ug/mL) Mixture

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

Not classified.

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

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SECTION 2: Hazards identification

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	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No signal word.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No signal word.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No signal word.
Hazard statements	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Response	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Storage	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Disposal	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.

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SECTION 2: Hazards identification

	ug/mL)	
Supplemental label elements	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Special packaging requirements		
Tactile warning of danger	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	None known.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	None known.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Mixture
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Mixture
	: Alcohol Calibration Standard Mix # 3 (4000 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

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SECTION 3: Composition/information on ingredients

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No action shall be taken involving any personal risk or without suitable training.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No action shall be taken involving any personal risk or without suitable training.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Inhalation	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Skin contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Ingestion	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.
Inhalation	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.

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SECTION 4: First aid measures

Skin contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.
Ingestion	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific treatment.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific treatment.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	None known.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	None known.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	None known.

SECTION 5: Firefighting measures

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 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. 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas.

SECTION 6: Accidental release measures

	ug/mL)	Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Alcohol Calibration Standard Mix # 3 (4000 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.
For emergency responders	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	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".
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	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".
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	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	: Alcohol Calibration Standard Mix # 1 (500 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).
	Alcohol Calibration Standard Mix # 2 (1000 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).
	Alcohol Calibration Standard Mix # 3 (4000 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).
6.3 Methods and material for containment and cleaning up		
Methods for cleaning up	: Alcohol Calibration Standard Mix # 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.
	Alcohol Calibration Standard Mix # 2 (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.
	Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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

Storage	: <input checked="" type="checkbox"/> Alcohol Calibration Standard Mix # 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.
	: Alcohol Calibration Standard Mix # 2 (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.
	: Alcohol Calibration Standard Mix # 3 (4000 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.

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SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Industrial applications, Professional applications.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Industrial applications, Professional applications.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Industrial applications, Professional applications.
Industrial sector specific solutions	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	: Alcohol Calibration Standard Mix # 3 (4000 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

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.

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SECTION 8: Exposure controls/personal protection

- 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** : Alcohol Calibration Standard Mix # 1 (500 ug/mL) Liquid. [Clear.]
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Liquid. [Clear.]
Alcohol Calibration Standard Mix # 3 (4000 ug/mL) Liquid. [Clear.]
- Colour** : Alcohol Calibration Standard Mix # 1 (500 ug/mL) Colourless.
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Colourless.
Alcohol Calibration Standard Mix # 3 (4000 ug/mL) Colourless.
- Odour** : Alcohol Calibration Standard Mix # 1 (500 ug/mL) Sweetish. / Ethereal. / Unpleasant.
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Sweetish. / Ethereal. / Unpleasant.
Alcohol Calibration Standard Mix # 3 (4000 ug/mL) Sweetish. / Ethereal. / Unpleasant.

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SECTION 9: Physical and chemical properties

Odour threshold	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
pH	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Melting point/freezing point	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	0°C
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	0°C
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	0°C
Initial boiling point and boiling range	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	100°C
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	100°C
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	100°C
Flash point	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Evaporation rate	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.

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SECTION 9: Physical and chemical properties

Flammability (solid, gas)	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not applicable.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not applicable.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not applicable.
Upper/lower flammability or explosive limits	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Vapour pressure	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Vapour density	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Relative density	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Solubility(ies)	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Easily soluble in the following materials: cold water and hot water.
	Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Easily soluble in the following materials: cold water and hot water.

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SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/water	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Auto-ignition temperature	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Decomposition temperature	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Viscosity	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Explosive properties	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.
Oxidising properties	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Not available.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	The product is stable. The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data. No specific data. No specific data.
10.5 Incompatible materials	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Alcohol Calibration Standard Mix # 1 (500 ug/mL) Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not available.

Acute toxicity estimates

Route	ATE value
Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	
Oral	25355 mg/kg
Dermal	76064.9 mg/kg
Inhalation (vapours)	760.6 mg/l

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)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.
: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.

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Ingestion	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Skin contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Eye contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.
Ingestion	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.
Skin contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No specific data.

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Eye contact	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No specific data.
	: Alcohol Calibration Standard Mix # 3 (4000 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	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Carcinogenicity	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Mutagenicity	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Teratogenicity	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Developmental effects	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 ug/mL)	No known significant effects or critical hazards.
Fertility effects	: Alcohol Calibration Standard Mix # 1 (500 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 2 (1000 ug/mL)	No known significant effects or critical hazards.
	: Alcohol Calibration Standard Mix # 3 (4000 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

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

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SECTION 13: Disposal considerations

- 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.

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 : Alcohol Calibration Standard Mix # 1 (500 ug/mL) Not applicable.
Alcohol Calibration Standard Mix # 2 (1000 ug/mL) Not applicable.
Alcohol Calibration Standard Mix # 3 (4000 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 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](#)

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SECTION 15: Regulatory information

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 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 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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