

SAFETY DATA SHEET



Kit CE-ESI-MS AJS compatible, Part Number G1607-64001

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

1.1 Product identifier

Product name : Kit CE-ESI-MS AJS compatible, Part Number G1607-64001
Part No. (Kit) : G1607-64001
Part No. : CE-MS Test Sample 5063-6590
CE-MS Run Buffer 8500-4410

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

Identified uses	
Analytical chemistry.	
CE-MS Test Sample	1 mg
CE-MS Run Buffer	5 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 : CE-MS Test Sample Mono-constituent substance
CE-MS Run Buffer Mixture

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

CE-MS Run Buffer

H226 FLAMMABLE LIQUIDS - Category 3
H302 ACUTE TOXICITY (oral) - Category 4
H312 ACUTE TOXICITY (dermal) - Category 4
H332 ACUTE TOXICITY (inhalation) - Category 4
H370 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 1

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

Hazard pictograms



Signal word : CE-MS Test Sample No signal word.
CE-MS Run Buffer Danger

Date of issue/Date of revision : 23/03/2016

SECTION 2: Hazards identification

Hazard statements	: CE-MS Test Sample CE-MS Run Buffer	No known significant effects or critical hazards. GHS02 - Flammable liquid and vapour. GHS07 - Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. GHS08 - Causes damage to organs.
 Precautionary statements		
Prevention	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. P260 - Do not breathe vapour.
Response	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
Storage	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. P235 - Keep cool.
Disposal	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: CE-MS Run Buffer Methanol	
Supplemental label elements	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. Not applicable.
Special packaging requirements		
Tactile warning of danger	: CE-MS Test Sample CE-MS Run Buffer	Not applicable. Not applicable.
 2.3 Other hazards		
Other hazards which do not result in classification	: CE-MS Test Sample CE-MS Run Buffer	May form explosible dust-air mixture if dispersed. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat. None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: CE-MS Test Sample CE-MS Run Buffer	Mono-constituent substance Mixture
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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Type
CE-MS Test Sample Quinine, sulfate (2:1), dihydrate	6119-70-6	100	Not classified.	
CE-MS Run Buffer Methanol	EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X	≥10 - ≤25	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 See Section 16 for the full text of the H statements declared above.	[1] [2]

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

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

[A] Constituent

[B] Impurity

[C] Stabilising additive

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: CE-MS Test Sample	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.
	CE-MS Run Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician.
Inhalation	: CE-MS Test Sample	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	CE-MS Run Buffer	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SECTION 4: First aid measures

Skin contact	: CE-MS Test Sample	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	CE-MS Run Buffer	Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. If necessary, call a poison center or physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: CE-MS Test Sample	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.
	CE-MS Run Buffer	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first-aiders	: CE-MS Test Sample	No action shall be taken involving any personal risk or without suitable training.
	CE-MS Run Buffer	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: CE-MS Test Sample	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	CE-MS Run Buffer	No known significant effects or critical hazards.
Inhalation	: CE-MS Test Sample	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	CE-MS Run Buffer	Harmful if inhaled.
Skin contact	: CE-MS Test Sample	No known significant effects or critical hazards.
	CE-MS Run Buffer	Harmful in contact with skin.
Ingestion	: CE-MS Test Sample	No known significant effects or critical hazards.
	CE-MS Run Buffer	Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact	: CE-MS Test Sample	Adverse symptoms may include the following: irritation redness
	CE-MS Run Buffer	No specific data.

SECTION 4: First aid measures

Inhalation	: CE-MS Test Sample CE-MS Run Buffer	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data.
Skin contact	: CE-MS Test Sample CE-MS Run Buffer	No specific data. No specific data.
Ingestion	: CE-MS Test Sample CE-MS Run Buffer	No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: CE-MS Test Sample CE-MS Run Buffer	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: CE-MS Test Sample CE-MS Run Buffer	No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: CE-MS Test Sample CE-MS Run Buffer	Use dry chemical powder. Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: CE-MS Test Sample CE-MS Run Buffer	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: CE-MS Test Sample CE-MS Run Buffer	May form explosible dust-air mixture if dispersed. Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Hazardous combustion products	: CE-MS Test Sample CE-MS Run Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides Formaldehyde.

5.3 Advice for firefighters

Special precautions for fire-fighters	: CE-MS Test Sample CE-MS Run Buffer	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: CE-MS Test Sample	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.
	CE-MS Run Buffer	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	: CE-MS Test Sample	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal protective equipment.
	CE-MS Run Buffer	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: CE-MS Test Sample	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".
	CE-MS Run Buffer	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	: CE-MS Test Sample	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).
	CE-MS Run Buffer	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	: CE-MS Test Sample	Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.
	CE-MS Run Buffer	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

SECTION 6: Accidental release measures

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 : CE-MS Test Sample Put on appropriate personal protective equipment (see Section 8). Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material.

CE-MS Run Buffer Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : CE-MS Test Sample 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.

CE-MS Run Buffer 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 : CE-MS Test Sample Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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.

CE-MS Run Buffer Store in accordance with local regulations. Store in a segregated and approved area. 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. Store locked up. Eliminate

SECTION 7: Handling and storage

all ignition sources. Separate from oxidizing materials. 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.

Seveso Directive - Reporting thresholds (in tonnes)

Named substances

Name	Notification and MAPP threshold	Safety report threshold
CE-MS Run Buffer Methanol	500	5000

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
CE-MS Run Buffer H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b	50 5000	200 50000

7.3 Specific end use(s)

Recommendations : CE-MS Test Sample Industrial applications, Professional applications.
CE-MS Run Buffer Industrial applications, Professional applications.

Industrial sector specific solutions : CE-MS Test Sample Not applicable.
CE-MS Run Buffer Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
CE-MS Run Buffer Methanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours.

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

SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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

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

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.

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	: CE-MS Test Sample	Solid. [Powder. or Crystals.]
	: CE-MS Run Buffer	Liquid.
Colour	: CE-MS Test Sample	White.
	: CE-MS Run Buffer	Colorless aqueous solution
Odour	: CE-MS Test Sample	Odourless.
	: CE-MS Run Buffer	Alcohol-like. [Slight]
Odour threshold	: CE-MS Test Sample	Not available.
	: CE-MS Run Buffer	Not available.
pH	: CE-MS Test Sample	6.2 [Conc. (% w/w): 100%]
	: CE-MS Run Buffer	Not available.
Melting point/freezing point	: CE-MS Test Sample	205°C
	: CE-MS Run Buffer	Not available.

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Flash point	: CE-MS Test Sample CE-MS Run Buffer	Not available. Open cup: 43°C
Evaporation rate	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Flammability (solid, gas)	: CE-MS Test Sample CE-MS Run Buffer	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat. Not applicable.
Upper/lower flammability or explosive limits	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Vapour pressure	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Vapour density	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Relative density	: CE-MS Test Sample CE-MS Run Buffer	0.8 Not available.
Solubility(ies)	: CE-MS Test Sample CE-MS Run Buffer	Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: CE-MS Test Sample CE-MS Run Buffer	0.53 Not available.
Auto-ignition temperature	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Decomposition temperature	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Viscosity	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Explosive properties	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.
Oxidising properties	: CE-MS Test Sample CE-MS Run Buffer	Not available. Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: CE-MS Test Sample CE-MS Run Buffer	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	: CE-MS Test Sample CE-MS Run Buffer	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: CE-MS Test Sample CE-MS Run Buffer	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	: CE-MS Test Sample CE-MS Run Buffer	Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Prevent dust accumulation. Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: CE-MS Test Sample CE-MS Run Buffer	Reactive or incompatible with the following materials: oxidizing materials Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: CE-MS Test Sample CE-MS Run Buffer	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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
CE-MS Run Buffer Methanol	LC50 Inhalation Vapour	Rat	145000 ppm	1 hours
	LC50 Inhalation Vapour	Rat	64000 ppm	4 hours
	LD50 Dermal	Rabbit	15800 mg/kg	-
	LD50 Oral	Rat	5600 mg/kg	-

Acute toxicity estimates

Route	ATE value
CE-MS Run Buffer Oral Dermal Inhalation (vapours)	500 mg/kg 1500 mg/kg 15 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
CE-MS Run Buffer Methanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	40 milligrams	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
CE-MS Run Buffer Methanol	Category 1	Not determined	Not determined

Specific target organ toxicity (repeated exposure)

Not available.

SECTION 11: Toxicological information

Aspiration hazard

Not available.

Information on likely routes of exposure : CE-MS Test Sample Not available.
 CE-MS Run Buffer Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation : CE-MS Test Sample Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
 CE-MS Run Buffer Harmful if inhaled.

Ingestion : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer Harmful if swallowed.

Skin contact : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer Harmful in contact with skin.

Eye contact : CE-MS Test Sample Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
 CE-MS Run Buffer No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : CE-MS Test Sample Adverse symptoms may include the following:
 respiratory tract irritation
 coughing
 CE-MS Run Buffer No specific data.

Ingestion : CE-MS Test Sample No specific data.
 CE-MS Run Buffer No specific data.

Skin contact : CE-MS Test Sample No specific data.
 CE-MS Run Buffer No specific data.

Eye contact : CE-MS Test Sample Adverse symptoms may include the following:
 irritation
 redness
 CE-MS Run Buffer 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 : CE-MS Test Sample Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
 CE-MS Run Buffer No known significant effects or critical hazards.

Carcinogenicity : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer No known significant effects or critical hazards.

Mutagenicity : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer No known significant effects or critical hazards.

Teratogenicity : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer No known significant effects or critical hazards.

Developmental effects : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer No known significant effects or critical hazards.

Fertility effects : CE-MS Test Sample No known significant effects or critical hazards.
 CE-MS Run Buffer No known significant effects or critical hazards.

SECTION 11: Toxicological information

Other information	: CE-MS Test Sample	Adverse symptoms may include the following: Eye irritation. Skin irritation. respiratory tract irritation. (similar material)
	: CE-MS Run Buffer	Adverse symptoms may include the following: blurred or double vision, Eye contact can result in corneal damage or blindness. Repeated or prolonged exposure to the substance can produce liver damage.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
CE-MS Run Buffer Methanol	Acute EC50 24500000 µg/l Fresh water	Daphnia - Daphnia magna - Larvae	48 hours
	Acute LC50 2500000 µg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours
	Acute LC50 290 mg/l Fresh water	Fish - Danio rerio - Egg	96 hours
	Chronic NOEC 9.96 mg/l Marine water	Algae - Ulva pertusa	96 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
CE-MS Run Buffer Methanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
CE-MS Test Sample Quinine, sulfate (2:1), dihydrate	0.53	-	low
CE-MS Run Buffer Methanol	-0.77	<10	low

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.

SECTION 13: Disposal considerations

Hazardous waste : The classification of the product may meet the criteria for a hazardous waste.




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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Additional information : **Special provisions**
251, 340

	ADR/RID	IMDG	IATA
14.1 UN number	UN3316	UN3316	UN3316
14.2 UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
14.3 Transport hazard class(es)	9 	9 	9 
14.4 Packing group	III	III	III
14.5 Environmental hazards	No.	No.	No.
Additional information	<p><u>Hazard identification number</u> 90</p> <p><u>Limited quantity</u> See SP 251</p> <p><u>Special provisions</u> 251, 340</p> <p><u>Tunnel code</u> (E)</p>	<p><u>Emergency schedules (EmS)</u> F-A, S-P</p> <p><u>Special provisions</u> 251, 340</p>	<p><u>Passenger and Cargo Aircraft</u>Quantity limitation: 10 kg Packaging instructions: 960</p> <p><u>Cargo Aircraft Only</u> Quantity limitation: 10 kg Packaging instructions: 960</p> <p><u>Limited Quantities - Passenger Aircraft</u> Quantity limitation: 1 kg Packaging instructions: Y960</p> <p><u>Special provisions</u> A44, A163</p>

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 : CE-MS Test Sample Not applicable.
CE-MS Run Buffer Not applicable.

Other EU regulations

Europe inventory : All components are listed or exempted.

Seveso Directive

This product is controlled under the Seveso Directive.

Named substances

Name
CE-MS Run Buffer Methanol

Danger criteria

Category
CE-MS Run Buffer H3: STOT Single exposure 1 P5c: Flammable liquids 2 and 3 not falling under P5a or P5b

National regulations

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 Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia : All components are listed or exempted.
Canada : All components are listed or exempted.
China : All components are listed or exempted.
Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): Not determined.
Malaysia : Not determined.
New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

SECTION 15: Regulatory information

Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Turkey	: Not determined.
United States	: All components are listed or exempted.

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
CE-MS Run Buffer Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 STOT SE 1, H370	On basis of test data Calculation method Calculation method Calculation method Calculation method

Date of issue/ Date of revision : 23/03/2016

Date of previous issue : No previous validation.

Version : 1

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