Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

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

Section 1. Identification

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

Part No. (Chemical Kit) : G1607-64001

Part No. :

CE-MS Test Sample	5063-6590
CE-MS Run Buffer	8500-4410

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

Analytical chemistry.

CE-MS Test Sample	1 mg
CE-MS Run Buffer	5 ml

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: (61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

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

GHS label elements

Hazard pictograms :

Signal word :

CE-MS Test Sample	No signal word.
CE-MS Run Buffer	DANGER

Hazard statements :

CE-MS Test Sample	No known significant effects or critical hazards.
CE-MS Run Buffer	H226 - Flammable liquid and vapour. H302 + H312 + H332 - Harmful if swallowed, in contact with skin or if inhaled. H370 - Causes damage to organs.

Precautionary statements

Prevention :

CE-MS Test Sample	Not applicable.
CE-MS Run Buffer	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. P242 - Use only non-sparking tools. P243 - Take precautionary measures against static

Section 2. Hazard(s) identification

			discharge. P233 - Keep container tightly closed. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapour. P270 - Do not eat, drink or smoke when using this product. P264 - Wash hands thoroughly after handling.
Response	:	CE-MS Test Sample CE-MS Run Buffer	Not applicable. P307 + P311 - IF exposed: Call a POISON CENTER or physician. P304 + P340 + P312 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. P301 + P312 + P330 - IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth. P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P302 + P352 + P312 - IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell.
Storage	:	CE-MS Test Sample CE-MS Run Buffer	Not applicable. P405 - Store locked up. P403 - Store in a well-ventilated place. 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.
Supplemental label elements	:	CE-MS Test Sample CE-MS Run Buffer	Not applicable. Not applicable.
Other hazards which do not result in classification	:	CE-MS Test Sample	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.
		CE-MS Run Buffer	None known.

Section 3. Composition and ingredient information

Substance/mixture	:	CE-MS Test Sample CE-MS Run Buffer	Substance Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
CE-MS Test Sample		
Quinine, sulfate (2:1), dihydrate	100	6119-70-6
CE-MS Run Buffer		
Methanol	≥10 - <30	67-56-1

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.

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

Section 4. First aid measures

Description of necessary 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.

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

Section 4. First aid measures

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.

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

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

Notes to physician	:	CE-MS Test Sample	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	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	No specific treatment.
		CE-MS Run Buffer	No specific treatment.
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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media

: CE-MS Test Sample: Use dry chemical powder.

CE-MS Run Buffer: Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media

: CE-MS Test Sample: Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

CE-MS Run Buffer: Do not use water jet.

Specific hazards arising from the chemical

: CE-MS Test Sample: 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.

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 thermal decomposition products

: CE-MS Test Sample: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
sulfur oxides

CE-MS Run Buffer: Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
Formaldehyde.

Special protective actions for fire-fighters

: CE-MS Test Sample: 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.

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.

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.

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.

Hazchem code

: CE-MS Test Sample: Not available.

CE-MS Run Buffer: •3W

Section 6. Accidental release measures

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

Section 6. Accidental release measures

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".

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).

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 7. Handling and storage

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

Section 7. Handling and storage

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.

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 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.

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
CE-MS Run Buffer Methanol	**Safe Work Australia (Australia, 1/2014). Absorbed through skin.** STEL: 328 mg/m³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 262 mg/m³ 8 hours. TWA: 200 ppm 8 hours.

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.

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

Individual protection measures

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

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

Skin protection

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

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

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

Section 9. Physical and chemical properties

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	:	CE-MS Test Sample	205°C (401°F)
		CE-MS Run Buffer	Not available.
Boiling point	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Flash point	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Open cup: 43°C (109.4°F)
Evaporation rate	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Flammability (solid, gas)	:	CE-MS Test Sample	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge and heat.
		CE-MS Run Buffer	Not applicable.
Lower and upper explosive (flammable) limits	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Vapour pressure	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Vapour density	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Relative density	:	CE-MS Test Sample	0.8
		CE-MS Run Buffer	Not available.
Solubility	:	CE-MS Test Sample	Soluble in the following materials: cold water and hot water.
		CE-MS Run Buffer	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	CE-MS Test Sample	0.53
		CE-MS Run Buffer	Not available.
Auto-ignition temperature	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Decomposition temperature	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.
Viscosity	:	CE-MS Test Sample	Not available.
		CE-MS Run Buffer	Not available.

Section 10. Stability and reactivity

Reactivity	:	CE-MS Test Sample	No specific test data related to reactivity available for this product or its ingredients.
		CE-MS Run Buffer	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	:	CE-MS Test Sample	The product is stable.
		CE-MS Run Buffer	The product is stable.

Section 10. Stability and reactivity

Possibility of hazardous reactions :
- CE-MS Test Sample: Under normal conditions of storage and use, hazardous reactions will not occur.
- CE-MS Run Buffer: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid :
- CE-MS Test Sample: 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.
- CE-MS Run Buffer: 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.

Incompatible materials :
- CE-MS Test Sample: Reactive or incompatible with the following materials: oxidizing materials
- CE-MS Run Buffer: Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products :
- CE-MS Test Sample: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- CE-MS Run Buffer: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

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	-

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	-

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Section 11. Toxicological information

Not available.

Specific target organ toxicity (single exposure)

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.

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

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.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

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

Ingestion : CE-MS Test Sample — No specific data.
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

Not available.

Section 11. Toxicological information

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.

Numerical measures of toxicity

Acute toxicity estimates

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

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

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

Persistence and degradability

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

Bioaccumulative potential

Section 12. Ecological information

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

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods : 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. 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

	ADG	IMDG	IATA
UN number	UN3316	UN3316	UN3316
UN proper shipping name	CHEMICAL KIT	CHEMICAL KIT	Chemical kit
Transport hazard class(es)	9 	9 	9 
Packing group	III	III	III
Environmental hazards	No.	No.	No.
Additional information	**Hazchem code** 2Z **Special provisions** 251, 340	**Emergency schedules (EmS)** F-A, S-P **Special provisions** 251, 340	**Passenger and Cargo Aircraft**Quantity limitation: 10 kg Packaging instructions: 960 **Cargo Aircraft Only**Quantity limitation: 10 kg Packaging instructions: 960 **Limited Quantities -**

Section 14. Transport information

			Passenger Aircraft Quantity limitation: 1 kg Packaging instructions: Y960 **Special provisions** A44, A163

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

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

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

Ingredient name	Schedule
CE-MS Run Buffer methanol	Restricted hazardous chemical [For spray painting if the substance contains more than 1% by volume]

Australia inventory (AICS) : All components are listed or exempted.

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

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)**: 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.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Turkey : Not determined.

Section 15. Regulatory information

United States : All components are listed or exempted.

Section 16. Any other relevant information

History

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

Date of previous issue : 11/04/2014.

Version : 3

Key to abbreviations : ADG = Australian Dangerous Goods
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOHSC = National Occupational Health and Safety Commission
SUSMP = Standard Uniform Schedule of Medicine and Poisons
UN = United Nations

Procedure used to derive the classification

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

References : Not available.

Indicates information that has changed from previously issued version.

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