Material Safety Data Sheet

Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
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3 mm sample kit - cold probe non-13C - 190350510

1 . Identification of the material and supplier

Names

Product name	:	3 mm sample kit - cold probe non-13C - 190350510
Part No. (Chemical Kit)	:	190350510
Part No.	:	4Hz 0.1% H2O/D2O 190350609 Temp Grad 190350611 1H S/N 190350670 1H Lineshape 190350689 ID 1 190350696 ID 2 190350697 Sucrose, NMR tested 190350612
ADG	:	Not regulated as Dangerous Goods according to the ADG Code

Supplier

Supplier/Manufacturer	:	Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
Emergency telephone number	:	CHEMTREC®: +(44)-870-8200418

Uses

Area of application	:	4Hz 0.1% H2O/D2O Industrial applications, Professional applications. Temp Grad Industrial applications, Professional applications. 1H S/N Industrial applications, Professional applications. 1H Lineshape Industrial applications, Professional applications. ID 1 Industrial applications, Professional applications. ID 2 Industrial applications, Professional applications. Sucrose, NMR tested Industrial applications, Professional applications.
Material uses	:	Analytical chemistry.

4Hz 0.1% H2O/D2O	250 µl
Temp Grad	860 µl
1H S/N	250 µl
1H Lineshape	250 µl
ID 1	250 µl
ID 2	250 µl
Sucrose, NMR tested	250 µl

2 . Hazards identification

Classification	:
Risk phrases	:
Safety phrases	:
Statement of hazardous/ dangerous nature	:

3 . Composition/information on ingredients

Ingredient name
No hazardous ingredient

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

4 . First-aid measures

5 . Fire-fighting measures

6 . Accidental release measures

7 . Handling and storage

8 . Exposure controls/personal protection

Occupational exposure limits : **No exposure standard allocated.**

9 . Physical and chemical properties

Physical state	:	4Hz 0.1% H2O/D2O	Liquid.
		Temp Grad	Liquid.
		1H S/N	Liquid.
		1H Lineshape	Liquid.
		ID 1	Liquid.
		ID 2	Liquid. [Clear.]
		Sucrose, NMR tested	Liquid. [Clear.]
Colour	:	4Hz 0.1% H2O/D2O	Colourless.
		Temp Grad	Colourless.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Colourless.
		Sucrose, NMR tested	Not available.
Odour	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Ripe olive.
		Sucrose, NMR tested	Not available.
Odour threshold	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Not available.
		Sucrose, NMR tested	Not available.
Boiling point	:	4Hz 0.1% H2O/D2O	101.42°C (214.6°F)
		Temp Grad	101.42°C (214.6°F)
		1H S/N	60.9°C (141.6°F)
		1H Lineshape	55.5°C (131.9°F)
		ID 1	60.9°C (141.6°F)
		ID 2	189°C (372.2°F)
		Sucrose, NMR tested	100°C (212°F)

9 . Physical and chemical properties

Melting point	:	4Hz 0.1% H2O/D2O	3.81°C (38.9°F)
		Temp Grad	3.81°C (38.9°F)
		1H S/N	-64°C (-83.2°F)
		1H Lineshape	-95°C (-139°F)
		ID 1	-64°C (-83.2°F)
		ID 2	18 to 18.54°C (64.4 to 65.4°F)
		Sucrose, NMR tested	0°C (32°F)
Vapour pressure	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	0.061 kPa (0.46 mm Hg) [room temperature]
		Sucrose, NMR tested	Not available.
Relative density	:	4Hz 0.1% H2O/D2O	1.1
		Temp Grad	1.1
		1H S/N	1.5
		1H Lineshape	0.872
		ID 1	1500
		ID 2	1.18
		Sucrose, NMR tested	Not available.
Flash point	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Closed cup: -17°C (1.4°F)
		ID 1	Not available.
		ID 2	Closed cup: 88°C (190.4°F)
		Sucrose, NMR tested	Not available.
Flammable limits	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Lower: 3%
		Sucrose, NMR tested	Not available.
Vapour density	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	1.04 [Air = 1]
		Sucrose, NMR tested	Not available.
pH	:	4Hz 0.1% H2O/D2O	7
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Not available.
		Sucrose, NMR tested	Not available.
Viscosity	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Not available.
		Sucrose, NMR tested	Not available.

9 . Physical and chemical properties

Auto-ignition temperature	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	215°C (419°F)
		Sucrose, NMR tested	Not available.
Evaporation rate	:	4Hz 0.1% H2O/D2O	Not available.
		Temp Grad	Not available.
		1H S/N	Not available.
		1H Lineshape	Not available.
		ID 1	Not available.
		ID 2	Not available.
		Sucrose, NMR tested	Not available.
Solubility	:	4Hz 0.1% H2O/D2O	Easily soluble in the following materials: cold water and hot water.
		Temp Grad	Easily soluble in the following materials: cold water and hot water.
		1H S/N	Very slightly soluble in the following materials: cold water and hot water.
		1H Lineshape	Easily soluble in the following materials: cold water, hot water and acetone.
		ID 1	Very slightly soluble in the following materials: cold water and hot water.
		ID 2	Soluble in the following materials: cold water and hot water.
		Sucrose, NMR tested	Easily soluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Conditions to avoid	:		
Materials to avoid	:		
Hazardous decomposition products	:	4Hz 0.1% H2O/D2O	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Temp Grad	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		1H S/N	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		1H Lineshape	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		ID 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		ID 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
		Sucrose, NMR tested	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 . Toxicological information

Potential acute health effects

Acute toxicity

Conclusion/Summary : Not available.

Potential chronic health effects

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Over-exposure signs/symptoms

Other adverse symptoms :	4Hz 0.1% H2O/D2O	Not available.
	Temp Grad	Not available.
	1H S/N	Not available.
	1H Lineshape	Not available.
	ID 1	Not available.
	ID 2	Not available.
	Sucrose, NMR tested	Not available.
Target organs :	4Hz 0.1% H2O/D2O	Not available.
	Temp Grad	Not available.
	1H S/N	Contains material which may cause damage to the following organs: kidneys, the reproductive system, liver, heart, upper respiratory tract, skin, eyes, central nervous system (CNS).
	1H Lineshape	Contains material which may cause damage to the following organs: blood, kidneys, the reproductive system, liver, heart, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea.
	ID 1	Contains material which may cause damage to the following organs: kidneys, lungs, the nervous system, the reproductive system, liver, heart, upper respiratory tract, skin, central nervous system (CNS), eye, lens or cornea, thyroid.
	ID 2	Contains material which may cause damage to the following organs: kidneys, liver, skin, eye, lens or cornea.
	Sucrose, NMR tested	Not available.

12 . Ecological information

Ecotoxicity : This material is harmful to aquatic life with long lasting effects.

Other ecological information

13 . Disposal considerations

14 . Transport information

Regulatory information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Additional information : **Remarks**
De minimis quantities

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

Control of Scheduled Carcinogenic Substances

Ingredient name	Schedule
No listed substance	

16 . Other information

Date of issue : 10/07/2013

Date of previous issue : No previous validation.

Indicates information that has changed from previously issued version.

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