Material Safety Data Sheet

Agilent Technologies

Tuning Sample T1 for ICP-MS Agilent Part Number G1820-60491

1 . Identification of the material and supplier

Product name : Tuning Sample T1 for ICP-MS Agilent Part Number G1820-60491

Part No. : G1820-60491

ADG : Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)

Supplier : Agilent Technologies Australia Pty Ltd
347 Burwood Highway
Forest Hill
Victoria 3131, Australia

Emergency Contact : For Australia: 13 11 26 (National Poisons Information Centre)
For New Zealand: 0800 764 766 (National Poisons Information Centre)
1800-802-402 Agilent (Information Telephone Number)

Area of application : Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.
- Industrial applications.

Material uses : Analytical reagent.
1 L

2 . Hazards identification

Classification : Xi; R36/38

Risk phrases : R36/38 - Irritating to eyes and skin.

Statement of hazardous/dangerous nature : HAZARDOUS SUBSTANCE. DANGEROUS GOODS.

3 . Composition/information on ingredients

Mixture : Yes.

CAS number : Mixture.

Ingredient name	CAS number	Concentration
Nitric acid	7697-37-2	1
cerium	7440-45-1	0.000001
Lithium	7439-93-2	0.000001

Other ingredients, determined not to be hazardous according to NOHSC criteria, and not dangerous according to the ADG Code, make up the product concentration to 100%.

4 . First-aid measures

First-aid measures

Inhalation : If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if adverse health effects persist or are severe.

Ingestion : Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if adverse health effects persist or are severe.

Skin contact : In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if adverse health effects persist or are severe.

Eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if adverse health effects persist or are severe.

5 . Fire-fighting measures

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Special exposure hazards - Explosibility : No specific hazard.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6 . Accidental release measures

Personal precautions : Avoid contact with eyes, skin and clothing.

Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Methods for cleaning up : If emergency personnel are unavailable, contain spilt material. For small spills, add absorbent (soil may be used in the absence of other suitable materials), scoop up material and place in a sealable, liquid-proof container for disposal. For large spills, dyke spilt material or otherwise contain it to ensure runoff does not reach a waterway. Place spilt material in an appropriate container for disposal.

7 . Handling and storage

Handling : Wash thoroughly after handling.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area.

8 . Exposure controls/personal protection

Occupational exposure limits

Ingredient name	Exposure limits
Nitric acid	**NOHSC (Australia, 7/2003).** STEL: 10 mg/m^3 15 minute/minutes. Form: All forms STEL: 4 ppm 15 minute/minutes. Form: All forms TWA: 5.2 mg/m^3 8 hour/hours. Form: All forms TWA: 2 ppm 8 hour/hours. Form: All forms

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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Engineering measures : No special ventilation requirements. Good general ventilation should be sufficient to control airborne levels. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

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.

Personal protection

Eyes : 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 or dusts.

Hands : 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.

Respiratory : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

8 . Exposure controls/personal protection

Skin : 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.

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.

9 . Physical and chemical properties

Physical state : Liquid.

Colour : Clear. Colourless.

Boiling point : The lowest known value is 83.89°C (183°F) (Nitric acid). Weighted average: 99.84°C (211.7°F)

Melting point : May start to solidify at 0°C (32°F) based on data for: Water. Weighted average: -0.41°C (31.3°F)

Relative density : 1.0004 (Water = 1)

Density : Weighted average: 1 g/cm^3

pH : <1 [Acidic.]

Solubility : Soluble in cold water, hot water.

10 . Stability and reactivity

Stability : The product is stable.

11 . Toxicological information

Potential acute health effects

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin contact : Irritating to skin.

Eye contact : Irritating to eyes.

Acute toxicity

Toxicity data

Product/ingredient name	Test	Result	Route	Species
Nitric acid	LDLo	430 mg/kg	Oral	human

Potential chronic health effects

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No known significant effects or critical hazards.

Ingestion : No known significant effects or critical hazards.

Skin : No known significant effects or critical hazards.

Target organs : Contains material which causes damage to the following organs: lungs, mucous membranes, upper respiratory tract, skin, eye, lens or cornea, teeth.

12 . Ecological information

Ecotoxicity data : Not available.

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

13 . Disposal considerations

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. 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.

14 . Transport information

Regulation	UN number	Proper shipping name	Class	PG*	Label	Additional information
ADG	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)	8	III		-
ADR	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)	8	III		-
IMDG	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)	8	III		-
IATA	3264	Corrosive liquid, acidic, inorganic, n.o.s. (Nitric acid)	8	III		**Quantity limitation - Passenger aircraft** 5 L **Quantity limitation - Cargo aircraft** 60 L **Packaging instruction** 818 820 **Remarks** Requires Shipper's Declaration of Dangerous Goods

PG* : Packing group

15 . Regulatory information

Standard for the Uniform Scheduling of Drugs and Poisons

Ingredient name	Schedule
No listed substance	

Control of Scheduled Carcinogenic Substances

Ingredient name	Schedule
No listed substance	

Australian Inventory status : The following substances are not listed on AICS or NICNAS:-Yttrium.

EU Classification : Xi; R36/38

HCS Classification : Target organ effects

16 . Other information

Person who prepared the MSDS :

Date of previous issue : **No previous validation.**

Disclaimer

DISCLAIMER: This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing the suitability of the Product for a particular application.