

Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

3100 OFFGEL 12 Well Frame Set, Part Number 5188-8012

1. Identification of the material and supplier

Names

Product name : 3100 OFFGEL 12 Well Frame Set, Part Number 5188-8012
Part No. (Chemical Kit) : 5188-8012
Part No. : Glycerol 50 percent 5188-6440
 Mineral Oil 5188-6443
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®: +(61)-290372994

Uses

Area of application : Glycerol 50 percent Industrial applications, Professional applications.
 Mineral Oil Industrial applications, Professional applications.
Material uses : Not available.
 Glycerol 50 percent 10 ml
 Mineral Oil 50 ml

2. Hazards identification

Classification : Glycerol 50 percent Not regulated.
 Mineral Oil Not regulated.
Risk phrases : Glycerol 50 percent Not classified.
 Mineral Oil Not classified.
Safety phrases : Glycerol 50 percent S36- Wear suitable protective clothing.
 Mineral Oil S36- Wear suitable protective clothing.
Statement of hazardous/dangerous nature : Glycerol 50 percent NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.
 Mineral Oil NON-HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS.

3. Composition/information on ingredients

Mixture : Glycerol 50 percent Yes.
 Mineral Oil No.

Ingredient name	CAS number	%
Glycerol 50 percent Glycerol	56-81-5	30 - 60
Mineral Oil White mineral oil (petroleum)	8042-47-5	>60

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

3 . Composition/information on ingredients

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.

4 . First-aid measures

Inhalation	: Glycerol 50 percent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Mineral Oil	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Ingestion	: Glycerol 50 percent	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.
	Mineral Oil	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.
Skin contact	: Glycerol 50 percent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Mineral Oil	Wash skin thoroughly with soap and water or use recognised skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	: Glycerol 50 percent	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.
	Mineral Oil	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.
Protection of first-aiders	: Glycerol 50 percent	No action shall be taken involving any personal risk or without suitable training.
	Mineral Oil	No action shall be taken involving any personal risk or without suitable training.
Advice to doctor	: Glycerol 50 percent	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Mineral Oil	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5 . Fire-fighting measures

Extinguishing media

Suitable	: Glycerol 50 percent Mineral Oil	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO ₂ , alcohol-resistant foam or water spray (fog).
Not suitable	: Glycerol 50 percent Mineral Oil	None known. Do not use water jet.
Special exposure hazards	: Glycerol 50 percent Mineral Oil Glycerol 50 percent Mineral Oil	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. 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. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: Glycerol 50 percent Mineral Oil	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide
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	: Glycerol 50 percent Mineral Oil	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8). No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment (see Section 8).
Environmental precautions	: Glycerol 50 percent Mineral Oil	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). 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 . Accidental release measures

Methods for cleaning up : Glycerol 50 percent

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Mineral Oil

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7 . Handling and storage

Handling : Glycerol 50 percent

Put on appropriate personal protective equipment (see Section 8). 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. Put on appropriate personal protective equipment (see Section 8). 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.

Mineral Oil

Storage : Glycerol 50 percent

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Mineral Oil

8 . Exposure controls/personal protection

[Occupational exposure limits](#)

8 . Exposure controls/personal protection

Ingredient name	Exposure limits
Glycerol 50 percent Glycerol	Safe Work Australia (Australia, 4/2013). TWA: 10 mg/m ³ 8 hours.
Mineral Oil White mineral oil (petroleum)	Safe Work Australia (Australia, 4/2013). TWA: 5 mg/m ³ 8 hours. Form: mist

No additional exposure standard allocated for other ingredients/components covered by the MSDS other than those listed in the table above.

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 appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

Exposure controls

- Engineering measures** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.
- 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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- 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.
- 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	: Glycerol 50 percent Mineral Oil	Liquid. Liquid. [Oily liquid.]
Colour	: Glycerol 50 percent Mineral Oil	Not available. Colourless.
Odour	: Glycerol 50 percent Mineral Oil	Not available. Not available.
Odour threshold	: Glycerol 50 percent Mineral Oil	Not available. Not available.
Boiling point	: Glycerol 50 percent Mineral Oil	Not available. 179 to 210°C (354.2 to 410°F)
Melting point	: Glycerol 50 percent Mineral Oil	Not available. -60 to -9°C (-76 to 15.8°F)
Vapour pressure	: Glycerol 50 percent Mineral Oil	Not available. 0.011 kPa (0.08 mm Hg) [room temperature]

9 . Physical and chemical properties

Relative density	: Glycerol 50 percent Mineral Oil	Not available. 0.875 to 0.905
Flash point	: Glycerol 50 percent Mineral Oil	Not available. Closed cup: 135°C (275°F)
Flammable limits	: Glycerol 50 percent Mineral Oil	Not available. Not available.
Vapour density	: Glycerol 50 percent Mineral Oil	Not available. Not available.
pH	: Glycerol 50 percent Mineral Oil	Not available. Not available.
Viscosity	: Glycerol 50 percent Mineral Oil	Not available. Kinematic (40°C (104°F)): >0.013 cm ² /s (>1.3 cSt)
Auto-ignition temperature	: Glycerol 50 percent Mineral Oil	Not available. 260 to 371.11°C (500 to 700°F)
Evaporation rate	: Glycerol 50 percent Mineral Oil	Not available. Not available.
Solubility	: Glycerol 50 percent Mineral Oil	Soluble in the following materials: cold water and hot water. Soluble in the following materials: diethyl ether. Insoluble in the following materials: cold water and hot water.

10 . Stability and reactivity

Chemical stability	: Glycerol 50 percent Mineral Oil	The product is stable. The product is stable.
Possibility of hazardous reactions	: Glycerol 50 percent Mineral Oil	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
Materials to avoid	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
Hazardous decomposition products	: Glycerol 50 percent Mineral Oil	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.

11 . Toxicological information

Potential acute health effects

Inhalation	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. Defatting to the skin. May cause skin dryness and irritation.
Eye contact	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Acute toxicity		

11 . Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
Glycerol 50 percent Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Mineral Oil White mineral oil (petroleum)	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Glycerol 50 percent Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary : Not available.

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
Mineral Oil White mineral oil (petroleum)	skin	Guinea pig	Not sensitizing

Conclusion/Summary : Not available.

Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

Chronic effects	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
Carcinogenicity	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Glycerol 50 percent Mineral Oil	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
Ingestion	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
Skin	: Glycerol 50 percent Mineral Oil	No specific data. Adverse symptoms may include the following: irritation dryness cracking
Eyes	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
Other adverse symptoms	: Glycerol 50 percent Mineral Oil	Not available. Not available.

11 . Toxicological information

Target organs : Glycerol 50 percent
Mineral Oil

Contains material which may cause damage to the following organs: kidneys, upper respiratory tract, skin, eye, lens or cornea.
Does not cause damage to the following organs: blood, lungs, upper respiratory tract, skin, eyes.

12 . Ecological information

Ecotoxicity : This material may cause long lasting harmful effects to aquatic life.

Other ecological information

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Glycerol 50 percent Glycerol	-1.76	-	low
Mineral Oil White mineral oil (petroleum)	>6	-	high

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. 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. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

14 . Transport information

Regulatory information

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

15 . Regulatory information

Standard Uniform Schedule of Medicine and Poisons

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Control of Scheduled Carcinogenic Substances

Ingredient name	Schedule
No listed substance	

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

16 . Other information

Remarks :
Date of issue : 28/07/2014
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✔ Indicates information that has changed from previously issued version.

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