

# SAFETY DATA SHEET



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

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

### 1.1 Product identifier

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

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

Identified uses	
Not available.	
Glycerol 50 percent	10 ml
Mineral Oil	50 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** : Glycerol 50 percent Mixture  
 Mineral Oil Mono-constituent substance

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

##### **Glycerol 50 percent**

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

##### **Mineral Oil**

H413 LONG-TERM AQUATIC HAZARD - Category 4

**Ingredients of unknown ecotoxicity** : Glycerol 50 percent Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 50%  
 Mineral Oil Not applicable.

#### Classification according to Directive 1999/45/EC [DPD]

Glycerol 50 percent The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

Mineral Oil The product is not classified as dangerous according to Directive 67/548/EEC and its amendments.

**Classification** : Glycerol 50 percent Not classified.  
 Mineral Oil Not classified.

See Section 16 for the full text of the R phrases or H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms :



**Signal word** : Glycerol 50 percent  
Mineral Oil

Warning  
No signal word.

**Hazard statements** : Glycerol 50 percent  
  
Mineral Oil

**GHS08** -  
May cause damage to organs through prolonged or repeated exposure.  
May cause long lasting harmful effects to aquatic life.

### Precautionary statements

**Prevention** : Glycerol 50 percent  
Mineral Oil

P260 - Do not breathe vapour.  
P273 - Avoid release to the environment.

**Response** : Glycerol 50 percent  
Mineral Oil

P314 - Get medical attention if you feel unwell.  
Not applicable.

**Storage** : Glycerol 50 percent  
Mineral Oil

Not applicable.  
Not applicable.

**Disposal** : Glycerol 50 percent  
  
Mineral Oil

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  
P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : **Glycerol 50 percent**  
Glycerol

**Mineral Oil**  
White mineral oil (petroleum)

**Supplemental label elements** : Glycerol 50 percent  
Mineral Oil

Not applicable.  
Not applicable.

### Special packaging requirements

**Tactile warning of danger** : Glycerol 50 percent  
Mineral Oil

Not applicable.  
Not applicable.

### 2.3 Other hazards

**Other hazards which do not result in classification** : Glycerol 50 percent  
Mineral Oil

None known.  
Defatting to the skin. Prolonged or repeated contact may dry skin and cause irritation.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** : Glycerol 50 percent  
Mineral Oil

Mixture  
Mono-constituent substance

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
<b>Glycerol 50 percent</b> Glycerol	EC: 200-289-5 CAS: 56-81-5	>=50 - <75	Not classified.	STOT RE 2, H373 (kidneys) (inhalation)	[1]
<b>Mineral Oil</b> White mineral oil (petroleum)	EC: 232-455-8 CAS: 8042-47-5	100	Not classified.	Aquatic Chronic 4, H413  <b>See Section 16 for the full text of the H statements declared above.</b>	[A]

**SECTION 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.

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] Constituent
- [C] Impurity

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>Eye contact</b>	: Glycerol 50 percent	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 following exposure or if feeling unwell.
	Mineral Oil	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.
<b>Inhalation</b>	: Glycerol 50 percent	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 following exposure or if feeling unwell. 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.
	Mineral Oil	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.
<b>Skin contact</b>	: Glycerol 50 percent	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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. Wash clothing before reuse. Clean shoes thoroughly before reuse.
<b>Ingestion</b>	: Glycerol 50 percent	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 following exposure or if feeling unwell. Never give anything by mouth to an unconscious

**SECTION 4: First aid measures**

Mineral Oil

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. 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 adverse health effects persist or are severe. 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** : Glycerol 50 percent

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Mineral Oil

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**4.2 Most important symptoms and effects, both acute and delayed**

Potential acute health effects

**Eye contact** : Glycerol 50 percent  
Mineral Oil

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

**Inhalation** : 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.

**Ingestion** : Glycerol 50 percent  
Mineral Oil

No known significant effects or critical hazards.  
No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact** : Glycerol 50 percent  
Mineral Oil

No specific data.  
No specific data.

**Inhalation** : Glycerol 50 percent  
Mineral Oil

No specific data.  
No specific data.

**Skin contact** : Glycerol 50 percent  
Mineral Oil

No specific data.  
Adverse symptoms may include the following:  
irritation  
dryness  
cracking

**Ingestion** : Glycerol 50 percent  
Mineral Oil

No specific data.  
No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** : Glycerol 50 percent  
Mineral Oil

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.  
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : Glycerol 50 percent  
Mineral Oil

No specific treatment.  
No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Glycerol 50 percent Mineral Oil	Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO <sub>2</sub> , alcohol-resistant foam or water spray (fog).
<b>Unsuitable extinguishing media</b>	: Glycerol 50 percent Mineral Oil	None known. Do not use water jet.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	: Glycerol 50 percent  Mineral Oil	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. This material may cause long lasting harmful effects to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
<b>Hazardous combustion products</b>	: 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

**5.3 Advice for firefighters**

<b>Special precautions for fire-fighters</b>	: 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.
<b>Special protective equipment for fire-fighters</b>	: Glycerol 50 percent  Mineral Oil	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. 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**

<b>For non-emergency personnel</b>	: 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
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## SECTION 6: Accidental release measures

<b>For emergency responders</b>	: Glycerol 50 percent	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".
	Mineral Oil	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".
<b>6.2 Environmental precautions</b>	: Glycerol 50 percent	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).
	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). Water polluting material. May be harmful to the environment if released in large quantities.
<b>6.3 Methods and materials for containment and cleaning up</b>		
<b>Methods for cleaning up</b>	: 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.
<b>6.4 Reference to other sections</b>	: 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

<b>Protective measures</b>	: Glycerol 50 percent	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Mineral Oil	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
<b>Advice on general occupational hygiene</b>	: Glycerol 50 percent	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.
	Mineral Oil	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,



## SECTION 7: Handling and storage

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

: 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.

Mineral Oil

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.

### 7.3 Specific end use(s)

#### Recommendations

: Glycerol 50 percent  
Mineral Oil

Industrial applications, Professional applications.  
Industrial applications, Professional applications.

#### Industrial sector specific solutions

: Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### 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.

#### Derived effect levels

No DNELs available.

#### Predicted effect concentrations

No PNECs available.

### 8.2 Exposure controls

#### Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

## SECTION 8: Exposure controls/personal protection

- 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.
- 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** : 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.
- 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

<b>Physical state</b>	: Glycerol 50 percent	Liquid.
	Mineral Oil	Liquid. [Oily liquid.]
<b>Colour</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Colourless.
<b>Odour</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Not available.
<b>Odour threshold</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Not available.
<b>pH</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Not available.
<b>Melting point/freezing point</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	-60 to -9°C
<b>Initial boiling point and boiling range</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	179 to 210°C
<b>Flash point</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Closed cup: 135°C
<b>Evaporation rate</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Not available.
<b>Flammability (solid, gas)</b>	: Glycerol 50 percent	Not applicable.
	Mineral Oil	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Glycerol 50 percent	Not available.
	Mineral Oil	Not available.



**SECTION 9: Physical and chemical properties**

<b>Vapour pressure</b>	: Glycerol 50 percent Mineral Oil	Not available. 0.011 kPa [room temperature]
<b>Vapour density</b>	: Glycerol 50 percent Mineral Oil	Not available. Not available.
<b>Relative density</b>	: Glycerol 50 percent Mineral Oil	Not available. 0.875 to 0.905
<b>Solubility(ies)</b>	: 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.
<b>Partition coefficient: n-octanol/water</b>	: Glycerol 50 percent Mineral Oil	Not available. >6
<b>Auto-ignition temperature</b>	: Glycerol 50 percent Mineral Oil	Not available. 260 to 371.11°C
<b>Decomposition temperature</b>	: Glycerol 50 percent Mineral Oil	Not available. Not available.
<b>Viscosity</b>	: Glycerol 50 percent Mineral Oil	Not available. Kinematic (40°C): >0.013 cm <sup>2</sup> /s
<b>Explosive properties</b>	: Glycerol 50 percent Mineral Oil	Not available. Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: Glycerol 50 percent  Mineral Oil	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.
<b>10.2 Chemical stability</b>	: Glycerol 50 percent Mineral Oil	The product is stable. The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: 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.
<b>10.4 Conditions to avoid</b>	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
<b>10.5 Incompatible materials</b>	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
<b>10.6 Hazardous decomposition products</b>	: 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.

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity**

## SECTION 11: Toxicological information

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

### Acute toxicity estimates

Not available.

### Irritation/Corrosion

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

### Sensitiser

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

### Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
<b>Glycerol 50 percent</b> Glycerol	Category 2	Inhalation	kidneys

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

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

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
<b>Ingestion</b>	: Glycerol 50 percent Mineral Oil	No specific data. No specific data.
<b>Skin contact</b>	: Glycerol 50 percent Mineral Oil	No specific data. Adverse symptoms may include the following: irritation dryness cracking

**SECTION 11: Toxicological information**

**Eye contact** : Glycerol 50 percent No specific data.  
Mineral Oil No specific data.

**Delayed and immediate effects and also 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** : Glycerol 50 percent May cause damage to organs through prolonged or repeated exposure.  
Mineral Oil Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Carcinogenicity** : Glycerol 50 percent No known significant effects or critical hazards.  
Mineral Oil No known significant effects or critical hazards.

**Mutagenicity** : Glycerol 50 percent No known significant effects or critical hazards.  
Mineral Oil No known significant effects or critical hazards.

**Teratogenicity** : Glycerol 50 percent No known significant effects or critical hazards.  
Mineral Oil No known significant effects or critical hazards.

**Developmental effects** : Glycerol 50 percent No known significant effects or critical hazards.  
Mineral Oil No known significant effects or critical hazards.

**Fertility effects** : Glycerol 50 percent No known significant effects or critical hazards.  
Mineral Oil No known significant effects or critical hazards.

**Toxicokinetics**

**Absorption** : Glycerol 50 percent Not available.  
Mineral Oil Not available.

**Distribution** : Glycerol 50 percent Not available.  
Mineral Oil Not available.

**Metabolism** : Glycerol 50 percent Not available.  
Mineral Oil Not available.

**Elimination** : Glycerol 50 percent Not available.  
Mineral Oil Not available.

**Other information** : Not available.

**SECTION 12: Ecological information****12.1 Toxicity**

**Conclusion/Summary** : Not available.

**12.2 Persistence and degradability**

**Conclusion/Summary** : Not available.

**12.3 Bioaccumulative potential**

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

**12.4 Mobility in soil**

**Date of issue/Date of revision** : 28/07/2014

## SECTION 12: Ecological information

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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.

**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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

### Regulatory information

**ADR/RID / IMDG / IATA** : Not regulated.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

#### 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** : Not applicable.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

#### Other EU regulations

**Europe inventory** : All components are listed or exempted.

**Black List Chemicals** : Not listed

**Priority List Chemicals** : Not listed

## SECTION 15: Regulatory information

**Integrated pollution prevention and control list (IPPC) - Air** : Not listed

**Integrated pollution prevention and control list (IPPC) - Water** : Not listed

**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
<b>Glycerol 50 percent</b> STOT RE 2, H373	Calculation method
<b>Mineral Oil</b> Aquatic Chronic 4, H413	On basis of test data

**Full text of abbreviated H statements** : **Glycerol 50 percent**  
 H373  
 H373 (kidneys) (inhalation)  
 May cause damage to organs through prolonged or repeated exposure.  
 May cause damage to organs through prolonged or repeated exposure if inhaled. (kidneys)

**Mineral Oil**  
 H413  
 May cause long lasting harmful effects to aquatic life.

**Full text of classifications [CLP/GHS]** : **Glycerol 50 percent**  
 STOT RE 2, H373  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2  
 STOT RE 2, H373 (kidneys) (inhalation)  
 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys) (inhalation) - Category 2

**Mineral Oil**  
 Aquatic Chronic 4, H413  
 LONG-TERM AQUATIC HAZARD - Category 4

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### Notice to reader

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