



## Section 2. Hazard(s) identification

<b>Prevention</b>	: AffinityScript Multiple-Temp RT	Not applicable.
	10X AffinityScript RT Buffer	Not applicable.
	100 mM DTT	Not applicable.
<b>Response</b>	: AffinityScript Multiple-Temp RT	Not applicable.
	10X AffinityScript RT Buffer	Not applicable.
	100 mM DTT	Not applicable.
<b>Storage</b>	: AffinityScript Multiple-Temp RT	Not applicable.
	10X AffinityScript RT Buffer	Not applicable.
	100 mM DTT	Not applicable.
<b>Disposal</b>	: AffinityScript Multiple-Temp RT	Not applicable.
	10X AffinityScript RT Buffer	Not applicable.
	100 mM DTT	Not applicable.
<b>Supplemental label elements</b>	: AffinityScript Multiple-Temp RT	Not applicable.
	10X AffinityScript RT Buffer	Not applicable.
	100 mM DTT	Not applicable.
<b>Other hazards which do not result in classification</b>	: AffinityScript Multiple-Temp RT	None known.
	10X AffinityScript RT Buffer	None known.
	100 mM DTT	None known.

## Section 3. Composition and ingredient information

<b>Substance/mixture</b>	: AffinityScript Multiple-Temp RT	Mixture
	10X AffinityScript RT Buffer	Mixture
	100 mM DTT	Mixture

### CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
AffinityScript Multiple-Temp RT Glycerol	≥30 - ≤60	56-81-5

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

<b>Eye contact</b>	: AffinityScript Multiple-Temp RT	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.
	10X AffinityScript RT Buffer	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.
	100 mM DTT	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.

## Section 4. First aid measures

<b>Inhalation</b>	: AffinityScript Multiple-Temp RT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	10X AffinityScript RT Buffer	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.
	100 mM DTT	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: AffinityScript Multiple-Temp RT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	10X AffinityScript RT Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	100 mM DTT	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: AffinityScript Multiple-Temp RT	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.
	10X AffinityScript RT Buffer	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.
	100 mM DTT	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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Inhalation</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Skin contact</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Ingestion</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.

## Section 4. First aid measures

### Over-exposure signs/symptoms

<b>Eye contact</b>	: AffinityScript Multiple-Temp RT	No specific data.
	10X AffinityScript RT Buffer	No specific data.
	100 mM DTT	No specific data.
<b>Inhalation</b>	: AffinityScript Multiple-Temp RT	No specific data.
	10X AffinityScript RT Buffer	No specific data.
	100 mM DTT	No specific data.
<b>Skin contact</b>	: AffinityScript Multiple-Temp RT	No specific data.
	10X AffinityScript RT Buffer	No specific data.
	100 mM DTT	No specific data.
<b>Ingestion</b>	: AffinityScript Multiple-Temp RT	No specific data.
	10X AffinityScript RT Buffer	No specific data.
	100 mM DTT	No specific data.

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

<b>Notes to physician</b>	: AffinityScript Multiple-Temp RT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	10X AffinityScript RT 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.
	100 mM DTT	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: AffinityScript Multiple-Temp RT	No specific treatment.
	10X AffinityScript RT Buffer	No specific treatment.
	100 mM DTT	No specific treatment.
<b>Protection of first-aiders</b>	: AffinityScript Multiple-Temp RT	No action shall be taken involving any personal risk or without suitable training.
	10X AffinityScript RT Buffer	No action shall be taken involving any personal risk or without suitable training.
	100 mM DTT	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### Extinguishing media

<b>Suitable extinguishing media</b>	: AffinityScript Multiple-Temp RT	Use an extinguishing agent suitable for the surrounding fire.
	10X AffinityScript RT Buffer	Use an extinguishing agent suitable for the surrounding fire.
	100 mM DTT	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: AffinityScript Multiple-Temp RT	None known.
	10X AffinityScript RT Buffer	None known.
	100 mM DTT	None known.

## Section 5. Firefighting measures

<b>Specific hazards arising from the chemical</b>	: AffinityScript Multiple-Temp RT	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X AffinityScript RT Buffer	In a fire or if heated, a pressure increase will occur and the container may burst.
	100 mM DTT	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous thermal decomposition products</b>	: AffinityScript Multiple-Temp RT	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	10X AffinityScript RT Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	100 mM DTT	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
<b>Special protective actions for fire-fighters</b>	: AffinityScript Multiple-Temp RT	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.
	10X AffinityScript RT 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.
	100 mM DTT	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>	: AffinityScript Multiple-Temp RT	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	10X AffinityScript RT Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	100 mM DTT	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: AffinityScript Multiple-Temp RT	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.
	10X AffinityScript RT Buffer	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

## Section 6. Accidental release measures

	100 mM DTT	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. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	: AffinityScript Multiple-Temp RT	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".
	10X AffinityScript RT 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".
	100 mM DTT	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>Environmental precautions</b>	: AffinityScript Multiple-Temp RT	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).
	10X AffinityScript RT 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).
	100 mM DTT	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).
<b><u>Methods and material for containment and cleaning up</u></b>		
<b>Methods for cleaning up</b>	: AffinityScript Multiple-Temp RT	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.
	10X AffinityScript RT Buffer	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.
	100 mM DTT	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.

## Section 7. Handling and storage

### Precautions for safe handling

#### Protective measures

- : AffinityScript Multiple-Temp RT  
10X AffinityScript RT Buffer  
100 mM DTT
- Put on appropriate personal protective equipment (see Section 8).  
Put on appropriate personal protective equipment (see Section 8).  
Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

- : AffinityScript Multiple-Temp RT  
10X AffinityScript RT Buffer  
100 mM DTT
- 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.  
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.  
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

- : AffinityScript Multiple-Temp RT  
10X AffinityScript RT Buffer  
100 mM DTT
- 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. See Section 10 for incompatible materials before handling or use.  
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. See Section 10 for incompatible materials before handling or use.  
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. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls and personal protection

### Control parameters

#### Occupational exposure limits

Ingredient name	Exposure limits
<input checked="" type="checkbox"/> AffinityScript Multiple-Temp RT Glycerol	<b>Safe Work Australia (Australia, 1/2014).</b> TWA: 10 mg/m <sup>3</sup> 8 hours.

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.
- 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** : 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** :  AffinityScript Multi-Temp RT Liquid.  
 10X AffinityScript RT Buffer Liquid.  
 100 mM DTT Liquid.
- Colour** :  AffinityScript Multi-Temp RT Not available.  
 10X AffinityScript RT Buffer Not available.  
 100 mM DTT Not available.
- Odour** :  AffinityScript Multi-Temp RT Not available.  
 10X AffinityScript RT Buffer Not available.  
 100 mM DTT Not available.
- Odour threshold** :  AffinityScript Multi-Temp RT Not available.  
 10X AffinityScript RT Buffer Not available.  
 100 mM DTT Not available.
- pH** :



## Section 9. Physical and chemical properties

		AffinityScript Multi-Temp RT	8
		10X AffinityScript RT Buffer	8.3
		100 mM DTT	Not available.
<b>Melting point</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	0°C (32°F)
<b>Boiling point</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	100°C (212°F)
<b>Flash point</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Evaporation rate</b>	:	AffinityScript Multi-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Flammability (solid, gas)</b>	:	AffinityScript Multi-Temp RT	Not applicable.
		10X AffinityScript RT Buffer	Not applicable.
		100 mM DTT	Not applicable.
<b>Lower and upper explosive (flammable) limits</b>	:	AffinityScript Multi-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Vapour pressure</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Vapour density</b>	:	AffinityScript Multi-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Relative density</b>	:	AffinityScript Multi-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Solubility</b>	:	AffinityScript Multi-Temp RT	Soluble in the following materials: cold water and hot water.
		10X AffinityScript RT Buffer	Easily soluble in the following materials: cold water and hot water.
		100 mM DTT	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	:	AffinityScript Multi-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Auto-ignition temperature</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Decomposition temperature</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.
<b>Viscosity</b>	:	AffinityScript Multiple-Temp RT	Not available.
		10X AffinityScript RT Buffer	Not available.
		100 mM DTT	Not available.

## Section 10. Stability and reactivity

<b>Reactivity</b>	: AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer  100 mM DTT	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. No specific test data related to reactivity available for this product or its ingredients.
<b>Chemical stability</b>	: AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT	The product is stable.  The product is stable. The product is stable.
<b>Possibility of hazardous reactions</b>	: AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer  100 mM DTT	Under normal conditions of storage and use, hazardous reactions will not occur. 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>Conditions to avoid</b>	: AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT	No specific data.  No specific data. No specific data.
<b>Incompatible materials</b>	: AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT	May react or be incompatible with oxidising materials.  May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
<b>Hazardous decomposition products</b>	: AffinityScript Multiple-Temp RT  10X AffinityScript RT Buffer  100 mM DTT	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. 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
AffinityScript Multiple-Temp RT Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AffinityScript Multiple-Temp RT Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

#### Sensitisation

Not available.

## Section 11. Toxicological information

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on likely routes of exposure** : AffinityScript Multi-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.  
 Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.

**Inhalation** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.

**Skin contact** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.

**Ingestion** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.  
 No known significant effects or critical hazards.

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

**Eye contact** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No specific data.  
 No specific data.  
 No specific data.

**Inhalation** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No specific data.  
 No specific data.  
 No specific data.

**Skin contact** : AffinityScript Multiple-Temp RT 10X AffinityScript RT Buffer 100 mM DTT  
 No specific data.  
 No specific data.  
 No specific data.

## Section 11. Toxicological information

<b>Ingestion</b>	: AffinityScript Multiple-Temp RT	No specific data.
	10X AffinityScript RT Buffer	No specific data.
	100 mM DTT	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.

<b>General</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Teratogenicity</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Developmental effects</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.
<b>Fertility effects</b>	: AffinityScript Multiple-Temp RT	No known significant effects or critical hazards.
	10X AffinityScript RT Buffer	No known significant effects or critical hazards.
	100 mM DTT	No known significant effects or critical hazards.

### Numerical measures of toxicity

#### Acute toxicity estimates

Route	ATE value
100 mM DTT Oral	32467.5 mg/kg

## Section 12. Ecological information

### Toxicity

Product/ingredient name	Result	Species	Exposure
AffinityScript Multiple-Temp RT Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

### Persistence and degradability

Not available.

### Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
AffinityScript Multiple-Temp RT Glycerol	-1.76	-	low

### Mobility in soil

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

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

**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

Not regulated.

### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

## Section 15. Regulatory information

Not listed.

### [Montreal Protocol \(Annexes A, B, C, E\)](#)

Not listed.

### [Stockholm Convention on Persistent Organic Pollutants](#)

Not listed.

### [Rotterdam Convention on Prior Informed Consent \(PIC\)](#)

Not listed.

### [UNECE Aarhus Protocol on POPs and Heavy Metals](#)

Not listed.

### [Inventory list](#)

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: All components are listed or exempted.
<b>Europe</b>	: All components are listed or exempted.
<b>Japan</b>	: <input checked="" type="checkbox"/> <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>Malaysia</b>	: Not determined.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: All components are listed or exempted.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: <input checked="" type="checkbox"/> Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: All components are listed or exempted.
<b>Viet Nam</b>	: <input checked="" type="checkbox"/> Not determined.

## Section 16. Any other relevant information

### [History](#)

<b>Date of issue/Date of revision</b>	: 19/05/2017
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### [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
Not classified.	

**References** : Not available.

## Section 16. Any other relevant information

✔ Indicates information that has changed from previously issued version.

### [Notice to reader](#)

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