

SAFETY DATA SHEET



AccuScript High Fidelity Reverse Transcriptase, Part Number 600089

Section 1. Identification

Product identifier : AccuScript High Fidelity Reverse Transcriptase, Part Number 600089
Part no. (chemical kit) : 600089
Part no. : 10X AccuScript RT Buffer 600089-52
 100 mM DTT 600089-53
 AccuScript High Fidelity RT 600089-54

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

Material uses : Analytical reagent.
 10X AccuScript RT Buffer 0.1 ml
 100 mM DTT 0.1 ml
 AccuScript High Fidelity RT 0.05 ml (50 reactions)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
 679 Springvale Road
 Mulgrave
 Victoria 3170, Australia
 1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

10X AccuScript RT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
	Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
100 mM DTT	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
AccuScript High Fidelity RT	Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60%
10X AccuScript RT Buffer	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 7.9%

GHS label elements

Signal word : 10X AccuScript RT Buffer No signal word.
 100 mM DTT No signal word.
 AccuScript High Fidelity RT No signal word.

Hazard statements : 10X AccuScript RT Buffer No known significant effects or critical hazards.
 100 mM DTT No known significant effects or critical hazards.
 AccuScript High Fidelity RT No known significant effects or critical hazards.

Precautionary statements

Prevention : 10X AccuScript RT Buffer Not applicable.
 100 mM DTT Not applicable.
 AccuScript High Fidelity RT Not applicable.

Section 2. Hazard(s) identification

Response	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not applicable. Not applicable. Not applicable.
Storage	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not applicable. Not applicable. Not applicable.
Disposal	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not applicable. Not applicable. Not applicable.
Supplemental label elements		
Additional warning phrases	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not applicable. Not applicable. Not applicable.
Other hazards which do not result in classification	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Mixture Mixture Mixture
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CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
AccuScript High Fidelity 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

Eye contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity 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. 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. 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.
Inhalation	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. Remove victim to fresh air and keep at rest in a

Section 4. First aid measures

Skin contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	position comfortable for breathing. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity 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. 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. 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

Eye contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Inhalation	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Skin contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.

Section 4. First aid measures

Ingestion	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
 <u>Indication of immediate medical attention and special treatment needed, if necessary</u>		
Notes to physician	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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. 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	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific treatment. No specific treatment. No specific treatment.
Protection of first-aiders	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Suitable extinguishing media	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	None known. None known. None known.
Specific hazards arising from the chemical	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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. In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides Decomposition products may include the following materials:

Section 5. Firefighting measures

carbon dioxide
carbon monoxide

Special protective actions for fire-fighters	: 10X AccuScript 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.
	AccuScript High Fidelity 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.
Special protective equipment for fire-fighters	: 10X AccuScript 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.
	AccuScript High Fidelity RT	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

For non-emergency personnel	: 10X AccuScript 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 protective equipment.
	100 mM DTT	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.
	AccuScript High Fidelity 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.
For emergency responders	: 10X AccuScript 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".
	AccuScript High Fidelity 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".

Section 6. Accidental release measures

Environmental precautions	: 10X AccuScript 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).
	AccuScript High Fidelity 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).

Methods and material for containment and cleaning up

Methods for cleaning up	: 10X AccuScript 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.
	AccuScript High Fidelity 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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures	: 10X AccuScript RT Buffer	Put on appropriate personal protective equipment (see Section 8).
	100 mM DTT	Put on appropriate personal protective equipment (see Section 8).
	AccuScript High Fidelity RT	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 10X AccuScript RT Buffer	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.
	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.
	AccuScript High Fidelity RT	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities : 10X AccuScript RT Buffer

100 mM DTT

AccuScript High Fidelity RT

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.

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
AccuScript High Fidelity RT Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 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

Section 8. Exposure controls and 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.
- 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** : 10X AccuScript RT Buffer Liquid.
100 mM DTT Liquid.
AccuScript High Fidelity RT Liquid.
- Colour** : 10X AccuScript RT Buffer Not available.
100 mM DTT Not available.
AccuScript High Fidelity RT Not available.
- Odour** : 10X AccuScript RT Buffer Not available.
100 mM DTT Not available.
AccuScript High Fidelity RT Not available.
- Odour threshold** : 10X AccuScript RT Buffer Not available.
100 mM DTT Not available.
AccuScript High Fidelity RT Not available.
- pH** : 10X AccuScript RT Buffer 8.3
100 mM DTT Not available.
AccuScript High Fidelity RT 8
- Melting point** : 10X AccuScript RT Buffer Not available.
100 mM DTT 0°C (32°F)
AccuScript High Fidelity RT Not available.
- Boiling point** : 10X AccuScript RT Buffer Not available.
100 mM DTT 100°C (212°F)
AccuScript High Fidelity RT Not available.
- Flash point** : 10X AccuScript RT Buffer Not available.
100 mM DTT Not available.
AccuScript High Fidelity RT Not available.
- Evaporation rate** : 10X AccuScript RT Buffer Not available.
100 mM DTT Not available.
AccuScript High Fidelity RT Not available.
- Flammability (solid, gas)** : 10X AccuScript RT Buffer Not applicable.
100 mM DTT Not applicable.
AccuScript High Fidelity RT Not applicable.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Vapour pressure	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Vapour density	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Relative density	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Solubility	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Auto-ignition temperature	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Decomposition temperature	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.
Viscosity	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Not available. Not available. Not available.

Section 10. Stability and reactivity

Reactivity	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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.
Chemical stability	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	The product is stable. The product is stable. The product is stable.
Possibility of hazardous reactions	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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.
Conditions to avoid	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Incompatible materials	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

Section 10. Stability and reactivity

Hazardous decomposition products	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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.
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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
AccuScript High Fidelity RT Glycerol	LD50 Oral	Rat	12600 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
AccuScript High Fidelity RT Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : 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	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation. Routes of entry anticipated: Oral, Dermal, Inhalation.
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Potential acute health effects

Eye contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
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Section 11. Toxicological information

Inhalation	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	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	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Inhalation	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Skin contact	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. No specific data.
Ingestion	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No specific data. No specific data. 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

General	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: 10X AccuScript RT Buffer 100 mM DTT AccuScript High Fidelity RT	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Section 11. Toxicological information

Route	ATE value
100 mM DTT Oral	33333.3 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
AccuScript High Fidelity RT Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
AccuScript High Fidelity RT Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
AccuScript High Fidelity RT Glycerol	-1.76	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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

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

Australia	: All components are listed or exempted.
Canada	: All components are listed or exempted.
China	: All components are listed or exempted.
Europe	: All components are listed or exempted.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: All components are listed or exempted.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: All components are listed or exempted.
Viet Nam	: Not determined.

Section 16. Any other relevant information

History

Date of issue/Date of revision : 26/04/2018

Date of previous issue : 25/05/2017

Version : 6

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.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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