

SAFETY DATA SHEET

Avida Duo Discovery Cancer Panel, 96 Reactions Automation, Part Number 5280-0070

Section 1. Identification

Product identifier : Avida Duo Discovery Cancer Panel, 96 Reactions Automation, Part Number 5280-0070

Part no. (chemical kit) : 5280-0070

Part no. : Avida DNA Discovery Cancer Panel, 96 Reactions Automation 5270-0002
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation 5270-0005

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

Identified uses : Analytical reagent.
For research use only.
Avida DNA Discovery Cancer Panel, 96 Reactions Automation 0.512 ml
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation 0.615 ml

Uses advised against : Not for use in diagnostic procedures.

Supplier/Manufacturer : Agilent Technologies, Inc.
5301 Stevens Creek Blvd
Santa Clara, CA 95051, USA
800-227-9770

Emergency telephone number (with hours of operation) : CHEMTREC®: 1-800-424-9300

Section 2. Hazard identification

Classification of the substance or mixture

Not classified.

GHS label elements

Signal word : Avida DNA Discovery Cancer Panel, 96 Reactions Automation No signal word.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation No signal word.

Hazard statements : Avida DNA Discovery Cancer Panel, 96 Reactions Automation No known significant effects or critical hazards.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation No known significant effects or critical hazards.

Precautionary statements

Section 2. Hazard identification

Prevention	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not applicable.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not applicable.
Response	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not applicable.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not applicable.
Storage	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not applicable.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not applicable.
Disposal	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not applicable.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not applicable.
Supplemental label elements	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	None known.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	None known.
Other hazards which do not result in classification	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	None known.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Mixture
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
Avida DNA Discovery Cancer Panel, 96 Reactions Automation			
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation			
Poly(oxy-1,2-ethanediyl), .alpha.-[	Polyethylene glycol octaphenyl ether	≤0.1	9036-19-5

Section 3. Composition/information on ingredients

(1,1,3,3-tetramethylbutyl)phenyl]-
omega.-hydroxy-

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified 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	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	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.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Wash out mouth with water. 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.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Wash out mouth with water. 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	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.

Section 4. First-aid measures

Inhalation	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
Skin contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
Ingestion	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.
Inhalation	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.
Skin contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.
Ingestion	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.

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

Notes to physician	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific treatment.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific treatment.

Section 4. First-aid measures

Protection of first-aiders	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No action shall be taken involving any personal risk or without suitable training.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Use an extinguishing agent suitable for the surrounding fire.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	None known.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	None known.

Specific hazards arising from the chemical	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	In a fire or if heated, a pressure increase will occur and the container may burst.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.

Special protective actions for fire-fighters	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	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.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	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 spilled material. Put on appropriate personal protective equipment.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	If specialized 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".
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	If specialized 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".
Environmental precautions	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Avoid dispersal of spilled 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).
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Avoid dispersal of spilled 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 materials for containment and cleaning up

Methods for cleaning up	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	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.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Put on appropriate personal protective equipment (see Section 8).
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Put on appropriate personal protective equipment (see Section 8).

Section 7. Handling and storage

Advice on general occupational hygiene

: Avida DNA Discovery Cancer Panel, 96 Reactions Automation

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.

Avida Methyl 3400 Cancer Panel, 96 Reactions Automation

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

: Avida DNA Discovery Cancer Panel, 96 Reactions Automation

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Avida Methyl 3400 Cancer Panel, 96 Reactions Automation

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

None.

Biological exposure indices

No exposure indices known.

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/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 and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

- Physical state** : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Liquid.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Liquid.
- Color** : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.
- Odor** : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.
- Odor threshold** : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.
- pH** :

Section 9. Physical and chemical properties and safety characteristics

	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	8
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	8
Melting point/freezing point	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	0°C (32°F)
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	0°C (32°F)
Boiling point, initial boiling point, and boiling range	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	100°C (212°F)
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	100°C (212°F)
Flash point	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not available.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not available.
Evaporation rate	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not available.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not available.
Flammability	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not applicable.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not applicable.
Lower and upper explosion limit/flammability limit	Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Not available.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Not available.

Vapor pressure	:	Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		Avida DNA Discovery Cancer Panel, 96 Reactions Automation						
		water	17.5	2.3	-	92.258	12.3	-
		Avida Methyl						

Section 9. Physical and chemical properties and safety characteristics

3400 Cancer Panel, 96 Reactions Automation						
water	17.5	2.3	-	92.258	12.3	-

Relative vapor density : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.

Relative density : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.

Solubility(ies)	Media	Result
	Avida DNA Discovery Cancer Panel, 96 Reactions Automation water	Soluble
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation water	Soluble

Partition coefficient: n-octanol/water : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not applicable.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not applicable.

Auto-ignition temperature : Not available.
Decomposition temperature : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.

Viscosity : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.

Particle characteristics

Median particle size : Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not applicable.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not applicable.

Section 10. Stability and reactivity

Reactivity	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific test data related to reactivity available for this product or its ingredients.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	The product is stable.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	The product is stable.
Possibility of hazardous reactions	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Under normal conditions of storage and use, hazardous reactions will not occur.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No specific data.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data.
Incompatible materials	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	May react or be incompatible with oxidizing materials.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	May react or be incompatible with oxidizing materials.
Hazardous decomposition products	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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
Avida DNA Discovery Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-
Avida Methyl 3400 Cancer				

Section 11. Toxicological information

Panel, 96 Reactions

Automation

Poly(oxy-1,2-ethanediyl), .
alpha.-[
(1,1,3,3-tetramethylbutyl)
phenyl]-.omega.-hydroxy-

LD50 Oral

Rat

2800 mg/kg

-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Avida DNA Discovery Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-

Sensitization

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 the likely routes of exposure

: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Not available.
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Not available.

Potential acute health effects

Section 11. Toxicological information

Eye contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	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	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data. No specific data.
Inhalation	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data. No specific data.
Skin contact	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data. No specific data.
Ingestion	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No specific data. 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.

Section 11. Toxicological information

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
Carcinogenicity	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
Mutagenicity	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
Reproductive toxicity	: Avida DNA Discovery Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.
	Avida Methyl 3400 Cancer Panel, 96 Reactions Automation	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Avida DNA Discovery Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	500	N/A	N/A	N/A	N/A
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Avida DNA Discovery Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - <i>Selenastrum sp.</i>	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - <i>Pandalus montagui</i> - Adult	48 hours
	Acute LC50 2.518 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - <i>Oncorhynchus mykiss</i>	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Avida DNA Discovery Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	2.7	78.67	Low
Avida Methyl 3400 Cancer Panel, 96 Reactions Automation Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	2.7	78.67	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 minimized 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

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 IMO instruments : Not available.

Section 15. Regulatory information

Canadian lists

Canadian NPRI : None of the components are listed.

CEPA Toxic substances : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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

Canada : Not determined.

United States : All components are active or exempted.

Section 16. Other information

History

Date of issue/Date of revision : 01/29/2024

Date of previous issue : No previous validation

Version : 1

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
HPR = Hazardous Products Regulations
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)
N/A = Not available
UN = United Nations

Procedure used to derive the classification

Classification	Justification
Not classified.	

📌 Indicates information that has changed from previously issued version.

Notice to reader

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