Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET



Herculase II Fusion DNA Polymerase, 30,000 Reaction Kit, Part Number 930689

Section 1. Identification

Product identifier	Herculase II Fusion DNA Polymerase, 30,000 Reaction Kit, Part Number 930689		
Part no. (chemical kit)	: 930689		
Part no.	: ₱MSO Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	930689-54 930689-51 930689-52 930689-53	
Relevant identified uses of the	e substance or mixture and uses advised a	gainst	
Identified uses	 Analytical reagent. MSO Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM 	2 x 37.5 ml 1 x 30 ml (30,0000 reaction) 9 x 50 ml 1 x 15 ml	
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			
⊅∕MSO H227 H320	FLAMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B		
Herculase II Fusion Enzyme 30,0000 rxn H320	SERIOUS EYE DAMAGE/EYE	IRRITATION - Category 2B	
Herculase II 5X Rxn Buffer H319	SERIOUS EYE DAMAGE/EYE	IRRITATION - Category 2A Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 5.4%	
<u>GHS label elements</u> Hazard pictograms	: Ferculase II 5X Rxn Buffer		
Signal word	 Image: Image: Im	WARNING WARNING WARNING No signal word.	

Section 2. Hazard(s) identification

Hazard statements	1	ØMSO	H227 - Combustible liquid.
		Herculase II Fusion Enzyme	H320 - Causes eye irritation. H320 - Causes eye irritation.
		30,0000 rxn	·
		Herculase II 5X Rxn Buffer	H319 - Causes serious eye irritation.
Dressutioners statements		dNTPs 100mM	No known significant effects or critical hazards.
Precautionary statements		MASO	Doto Kaan away from boot bot automa anarka
Prevention	1	ØMSO	P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		Herculase II Fusion Enzyme 30,0000 rxn	Not applicable.
		Herculase II 5X Rxn Buffer dNTPs 100mM	P280 - Wear eye or face protection. Not applicable.
Response	:	₽ MSO	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		Herculase II Fusion Enzyme 30,0000 rxn	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical
		Herculase II 5X Rxn Buffer	advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.
		dNTPs 100mM	Not applicable.
Storage	:	Ø MSO	Not applicable.
-		Herculase II Fusion Enzyme 30,0000 rxn	Not applicable.
		Herculase II 5X Rxn Buffer dNTPs 100mM	Not applicable. Not applicable.
Disposal	:	₽ MSO	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
		Herculase II Fusion Enzyme 30,0000 rxn	Not applicable.
		Herculase II 5X Rxn Buffer dNTPs 100mM	Not applicable. Not applicable.
Supplemental label element	le		
Additional warning		M SO	Not applicable.
phrases		Herculase II Fusion Enzyme 30,0000 rxn	Not applicable.
		Herculase II 5X Rxn Buffer dNTPs 100mM	Not applicable. Not applicable.
Other hazards which do not result in classification	:	₱MSO Herculase II Fusion Enzyme	None known. None known.
		30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	None known. None known.

Section 3. Composition and ingredient information

Substance/mixture

: DMSO Substance Herculase II Fusion Enzyme Mixture 30,0000 rxn Herculase II 5X Rxn Buffer Mixture dNTPs 100mM Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
ØMSO		
Dimethyl sulfoxide	100	67-68-5
Herculase II Fusion Enzyme 30,0000 rxn		
Glycerol	≥30 - ≤60	56-81-5
Herculase II 5X Rxn Buffer		
Hexadecan-1-ol, ethoxylated	<3	9004-95-9

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.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

Description of necessary first	<u>aid measures</u>	
Eye contact	: DMSO	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Herculase II Fusion Enzyme 30,0000 rxn	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. If irritation persists, get medical attention.
	Herculase II 5X Rxn Buffer	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
	dNTPs 100mM	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	: ₱́MSO	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Herculase II Fusion Enzyme	Remove victim to fresh air and keep at rest in a

	30,0000 rxn Herculase II 5X Rxn Buffer	position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	dNTPs 100mM	Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. 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.
Skin contact	: ǾMSO	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing
	Herculase II Fusion Enzyme 30,0000 rxn	before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	Herculase II 5X Rxn Buffer	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing
	dNTPs 100mM	before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	E ₽MSO	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Herculase II Fusion Enzyme 30,0000 rxn	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to

	drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Herculase II 5X Rxn Buffer	Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
dNTPs 100mM	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 effect			
Eye contact	ØMSO Herculas∉ 30,0000 i	e II Fusion Enzyme xn	Causes eye irritation. Causes eye irritation.
	Herculas dNTPs 10	e II 5X Rxn Buffer 00mM	Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	MSO Herculas 30,0000 i	e II Fusion Enzyme xn	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Herculas dNTPs 10	e II 5X Rxn Buffer 00mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	DMSO Herculas₀ 30,0000 i	e II Fusion Enzyme xn	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Herculas dNTPs 10	e II 5X Rxn Buffer 00mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	MSO Herculas 30,0000 i	e II Fusion Enzyme xn	No known significant effects or critical hazards. No known significant effects or critical hazards.
Q	dNTPs 1	e II 5X Rxn Buffer 00mM	No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: DMSO	Adverse symptoms may include the following: irritation watering redness
	Herculase II Fusion Enzyme 30,0000 rxn	Adverse symptoms may include the following:
		irritation watering
	Herculase II 5X Rxn Buffer	redness Adverse symptoms may include the following: pain or irritation
		watering redness
	dNTPs 100mM	No specific data.
Inhalation	: DMSO	No specific data.
	Herculase II Fusion Enzyme 30,0000 rxn	No specific data.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No specific data. No specific data.
Skin contact	: DMSO	No specific data.
	Herculase II Fusion Enzyme 30,0000 rxn	No specific data.
	Herculase II 5X Rxn Buffer	No specific data.
	dNTPs 100mM	No specific data.
Ingestion	: DMSO	No specific data.
	Herculase II Fusion Enzyme 30,0000 rxn	No specific data.
	Herculase II 5X Rxn Buffer	No specific data.
	dNTPs 100mM	No specific data.
Indication of immediate I	medical attention and special treatn	nent needed, if necessary
Notes to physician	: DMSO	Treat symptomatically. Contact poison treatment

		specialist immediately if large quantities have been
	Herculase II Fusion Enzyme 30,0000 rxn	ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Herculase II 5X Rxn 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.
	dNTPs 100mM	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.
Specific treatments	: ₱MSO Herculase II Fusion Enzyme 30,0000 rxn	No specific treatment. No specific treatment.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No specific treatment. No specific treatment.
Protection of first-aiders	: DMSO	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Herculase II Fusion Enzyme 30,0000 rxn	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	Herculase II 5X Rxn Buffer	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth

dNTPs 100mM

resuscitation. 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	 Image: Image of the state of t	Use dry chemical, CO ₂ , water spray (fog) or foam. 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	: ØMSO Herculase II Fusion Enzyme 30,0000 rxn	Do not use water jet. None known.
	Herculase II 5X Rxn Buffer dNTPs 100mM	None known. None known.
Specific hazards arising from the chemical	: DMSO	Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapour/gas is heavier than air and will spread along the ground. Vapours may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.
	Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer	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.
	dNTPs 100mM	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: DMSO	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	Herculase II Fusion Enzyme 30,0000 rxn	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	Herculase II 5X Rxn Buffer	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides metal oxide/oxides
	dNTPs 100mM	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

Section 5. Firefighting measures

e e e e e e e e e e e e e e e e e e e		
Special protective actions for fire-fighters	: DMSO	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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	Herculase II Fusion Enzyme 30,0000 rxn	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.
	Herculase II 5X Rxn 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.
	dNTPs 100mM	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	: DMSO	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Herculase II Fusion Enzyme 30,0000 rxn	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	Herculase II 5X Rxn Buffer	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	dNTPs 100mM	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, pro	tective equipment and emergency	<u>/ procedures</u>
For non-emergency personnel	: DMSO	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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Herculase II Fusion Enzyme 30,0000 rxn	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	Herculase II 5X Rxn 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on

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Section 6. Accidental release measures

		dNTPs 100mM	appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	s :	ØMSO	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
		Herculase II Fusion Enzyme 30,0000 rxn	information in "For non-emergency personnel". 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
		Herculase II 5X Rxn Buffer	information in "For non-emergency personnel". 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
		dNTPs 100mM	information in "For non-emergency personnel". 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".
Environmental precautions	:	₽MSO	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).
		Herculase II Fusion Enzyme 30,0000 rxn	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).
		Herculase II 5X Rxn 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,
		dNTPs 100mM	soil or air). Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Methods and material for co	onta	inment and cleaning up	
Methods for cleaning up	:	₽MSO	Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
		Herculase II Fusion Enzyme 30,0000 rxn	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
		Herculase II 5X Rxn Buffer	disposal contractor. 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
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Section 6. Accidental release measures

dNTPs 100mM	inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. 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.
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Section 7. Handling and storage

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Precautions for safe handling		
Protective measures	: ₱́MSO	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion- proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Herculase II Fusion Enzyme 30,0000 rxn	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	Herculase II 5X Rxn Buffer dNTPs 100mM	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Put on appropriate personal protective equipment (as a participal)
Advice on general occupational hygiene	: DMSO	(see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for
	Herculase II Fusion Enzyme 30,0000 rxn	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.
	Herculase II 5X Rxn Buffer	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face

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Section 7. Handling and storage

	dNTPs 100mM	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	: DMSO	Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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.
	Herculase II Fusion Enzyme 30,0000 rxn	
	Herculase II 5X Rxn Buffer	Store in accordance with local regulations. Shelf life: 1 Year. 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
	dNTPs 100mM	incompatible materials before handling or use. Store in accordance with local regulations. Shelf life: 1 Year. 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.

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Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Dimethod automide	
Dimethyl sulfoxide	DFG MAC-values list (Germany, 7/2023). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.
Herculase II Fusion Enzyme 30,0000 rxn	
Glycerol	Safe Work Australia (Australia, 10/2022). TWA: 10 mg/m ³ 8 hours.

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 measu	ires	
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

Appearance										
Physical state	1	MSO Herculase II Fusion I 30.0000 rxn	Enzyme	Liquid. [Clear.] Liquid.						
		Herculase II 5X Rxn dNTPs 100mM	Liquid. Liquid.							
Colour	:	⊅ MSO		Colourle	ess.					
		Herculase II Fusion I	Enzyme	Not ava	ilable.					
		30,0000 rxn Herculase II 5X Rxn	Duffor	Not ava	ilabla					
		dNTPs 100mM	Dullei	Not ava						
Odour		MSO			ess. [Slight]					
	ĺ	Herculase II Fusion I 30,0000 rxn		Not ava						
		Herculase II 5X Rxn dNTPs 100mM	Buffer	Not ava Not ava						
Odour threshold	1	-		Not ava						
		Herculase II Fusion I 30,0000 rxn	-	Not ava						
		Herculase II 5X Rxn dNTPs 100mM	Buffer	Not ava Not ava	ilable.					
pH	÷	MSO Herculase II Fusion I	Enzyme	Not ava	ilable.					
		30,0000 rxn	Inzyme	8.2						
		Herculase II 5X Rxn	Buffer	9.5 to 1	0.5					
		dNTPs 100mM		7.5						
Melting point/freezing point	1			18.5°C (65.3°F)						
		Herculase II Fusion E 30,0000 rxn	=n∠yme	Not ava	liable.					
		Herculase II 5X Rxn	Buffer	Not ava	ilable.					
		dNTPs 100mM				Not available.				
Boiling point, initial boiling	1	P= = •	_	189°C (372.2°F)						
point, and boiling range		Herculase II Fusion E 30,0000 rxn	Enzyme	Not available.						
		Herculase II 5X Rxn dNTPs 100mM	Buffer	Not available. Not available.						
Flash point	:	M SO		Closed cup: 87°C (188.6°F) [ASTM D 93]						
				Open cup: 87°C (188.6°F) Not available.						
		Herculase II Fusion E 30,0000 rxn	Enzyme	NOL ava	liable.					
		Herculase II 5X Rxn	Buffer	Not available.						
		dNTPs 100mM		Not ava	ilable.					
				Closed cup			Open	сир		
		Ingredient name	°C	°F	Method	°C	°F	Method		
		Herculase II								
		Fusion Enzyme								
		30,0000 rxn								
		Glycerol	-	-	-	177	350.6	-		
Evaporation rate	:	⊅ MSO	1	· ·	outyl acetate	= 1)	I			
		Herculase II Fusion E 30,0000 rxn	Enzyme	Not ava	ilable.					
		Herculase II 5X Rxn	Buffer	Not ava	ilable.					
		dNTPs 100mM		Not ava	ilable.					

Section 9. Physical and chemical properties and safety characteristics

Flammability	Ĥ	MSO erculase II Fusion E 0,0000 rxn	Enzyme	Not applicable. Not applicable.				
	H	erculase II 5X Rxn I NTPs 100mM	Buffer	Not appli Not appli				
Lower and upper explosion limit/flammability limit	·	MSO	Lower: 2 Upper: 2	8.5%				
		erculase II Fusion E 0,0000 rxn	-nzyme	zyme Not available.				
	dl	erculase II 5X Rxn I NTPs 100mM	Buffer	Not avail Not avail				
Vapour pressure	: 🗹	MSO	1		a (0.42 mm		-	
			Vapou	ır Pressu	ire at 20°C	Vapo	ur pressu	ire at 50°C
	h	ngredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	F	ferculase II Fusion Enzyme 50,0000 rxn						
	w	vater	17.5	2.3	-	92.258	12.3	-
	G	Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
		lerculase II 5X Rxn Buffer						
	w	vater	17.5	2.3	-	92.258	12.3	-
	d	INTPs 100mM						
		vater	17.5	2.3	-	92.258	12.3	-
Relative vapour density	Ĥ	MSO erculase II Fusion E 0,0000 rxn	Enzyme	2.7 [Air = 1] Not available.				
	dl	erculase II 5X Rxn I NTPs 100mM	Buffer	Not avail Not avail				
Relative density	Ĥ	MSO erculase II Fusion E 0,0000 rxn	Enzyme	1.1 Not available.				
	H	erculase II 5X Rxn I NTPs 100mM	Buffer	Not avail Not avail				
Solubility(ies)	: M	ledia			Result			
	w H	MSO vater lerculase II Fusion	Enzyme	30,0000	Soluble			
	w	rxn water Herculase II 5X Rxn Buffe			Soluble			
	w	ater NTPs 100mM	Buildi		Soluble			
		ater			Soluble			
Partition coefficient: n- octanol/water	Ĥ	MSO erculase II Fusion E 0,0000 rxn	Enzyme	-1.35 Not appli	cable.			
	H	erculase II 5X Rxn I NTPs 100mM	Buffer	Not appli Not appli				
Date of issue/Date of revision	: 30/04/	/2024 Date of p	previous iss	sue	: 29/03/2021		Version	:3 14/2

Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature	: ØMSO	300 to 302°	C (572 to 57	5.6°F)
	Ingredient name	°C	°F	Method
	Ferculase II Fusion Enzy 30,0000 rxn	rme		
	Glycerol	370	698	-
Decomposition temperature	: MSO Herculase II Fusion Enzym 30,0000 rxn	140 to 189° e Not availabl	·	2.2°F)
	Herculase II 5X Rxn Buffer dNTPs 100mM	Not availabl Not availabl		
Viscosity	: ₱MSO Herculase II Fusion Enzym 30.0000 rxn	Dynamic: 2. e Not availabl	•	2.14 cP)
	Herculase II 5X Rxn Buffer dNTPs 100mM	Not availabl Not availabl		
Particle characteristics				
Median particle size	: ØMSO Herculase II Fusion Enzym 30,0000 rxn	Not applicat e Not applicat		
	Herculase II 5X Rxn Buffer dNTPs 100mM	Not applicat Not applicat		

Section 10. Stability and reactivity

Reactivity	: DMSO	No specific test data related to reactivity available for
	Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	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. No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: ₱MSO Herculase II Fusion Enzyme 30,0000 rxn	The product is stable. The product is stable.
	Herculase II 5X Rxn Buffer dNTPs 100mM	Shelf life: 1 Year. Shelf life: 1 Year.
Possibility of hazardous reactions	: MSO Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	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. Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: DMSO	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapour to accumulate in low or confined areas.
	Herculase II Fusion Enzyme 30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	No specific data. No specific data. No specific data.
Date of issue/Date of revision	: 30/04/2024 Date of previous is	sue : 29/03/2021 Version : 3 15/22

Section 10. Stability and reactivity

Incompatible materials	: MSO Herculase II Fusion Enzyme	Reactive or incompatible with the following materials: oxidising materials May react or be incompatible with oxidising materials.
	30,0000 rxn Herculase II 5X Rxn Buffer dNTPs 100mM	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
Hazardous decomposition products	: DMSO	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Herculase II Fusion Enzyme 30,0000 rxn	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Herculase II 5X Rxn Buffer	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	dNTPs 100mM	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

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Product/ingredient name	Result	Species	Dose	Exposure
DMSO Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	-
Herculase II Fusion Enzyme 30,0000 rxn Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Herculase II 5X Rxn Buffer Hexadecan-1-ol, ethoxylated	LD50 Oral	Rat	2500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
DMSO					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Herculase II Fusion Enzyme 30,0000 rxn					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit	-	mg 24 hours 500	-
				mg	

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available. Carcinogenicity

Section 11. Toxicological information

Conclusion/Summary	: Not available.	
Reproductive toxicity		
Conclusion/Summary	: Not available.	
Teratogenicity		
Conclusion/Summary	: Not available.	
Specific target organ toxicit	<u>y (single exposure)</u>	
Not available.		
Specific target organ toxicit Not available.	<u>y (repeated exposure)</u>	
Aspiration hazard Not available.		
Information on likely routes of exposure	: DMSO	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	Herculase II Fusion Enzyme	Routes of entry anticipated: Oral, Dermal, Inhalation,
	30,0000 rxn Herculase II 5X Rxn Buffer	Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation,
		Eyes.
	dNTPs 100mM	Not available.
Potential acute health effects		
Eye contact	: DMSO Herculase II Fusion Enzyme	Causes eye irritation. Causes eye irritation.
	30,0000 rxn	
	Herculase II 5X Rxn Buffer dNTPs 100mM	Causes serious eye irritation. No known significant effects or critical hazards.
Inhalation	: DMSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: DMSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: DMSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the physical	sical, chemical and toxicologic	cal characteristics
Eye contact	: DMSO	Adverse symptoms may include the following: irritation
		watering
	Herculase II Fusion Enzyme	redness Adverse symptoms may include the following:
	30,0000 rxn	
		irritation
		watering redness
	Herculase II 5X Rxn Buffer	Adverse symptoms may include the following: pain or irritation watering
		redness
	dNTDc 100mM	No sposific data

No specific data.

dNTPs 100mM

Section 11. Toxicological information

Inhalation	: ₱MSO Herculase II Fusion Enzyme 30.0000 rxn	No specific data. No specific data.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No specific data. No specific data.
Skin contact	 MSO Herculase II Fusion Enzyme 30,0000 rxn 	No specific data. No specific data.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No specific data. No specific data.
Ingestion	MSO Herculase II Fusion Enzyme 30,0000 rxn	No specific data. No specific data.
	Herculase II 5X Rxn Buffer dNTPs 100mM	No specific data. No specific data.

Delayed and immediate effect	ts	as well as chronic effects fro	om short and long-term exposure
Short term exposure			
Potential immediate effects	:	Not available.	
Potential delayed effects	1	Not available.	
<u>Long term exposure</u>			
Potential immediate effects	:	Not available.	
Potential delayed effects	1	Not available.	
Potential chronic health effe	ect	<u>s</u>	
General	:	MSO	No known significant effects or critical hazards.
		Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	-	MSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	-	MSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer dNTPs 100mM	No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	:	MSO Herculase II Fusion Enzyme 30,0000 rxn	No known significant effects or critical hazards. No known significant effects or critical hazards.
		Herculase II 5X Rxn Buffer dNTPs 100mM	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

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Herculase II Fusion Enzyme 30,0000 rxn Glycerol	12600	N/A	N/A	N/A	N/A
Herculase II 5X Rxn Buffer Herculase II 5X Rxn Buffer Hexadecan-1-ol, ethoxylated	52350 500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

<u>Toxicity</u>			
Product/ingredient name	Result	Species	Exposure
DMSO			
Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	21 days
Herculase II Fusion Enzyme 30,0000 rxn			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Herculase II 5X Rxn Buffer			
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
DMSO				
Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-
Herculase II Fusion Enzyme 30,0000 rxn				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

Section 12. Ecological information

	5					
Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability			
Dimethyl sulfoxide	-	-	Not readily			
Herculase II 5X Rxn Buffer Hexadecan-1-ol, ethoxylated	-	-	Readily			

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Dimethyl sulfoxide	-1.35	3.16	Low
Herculase II Fusion Enzyme 30,0000 rxn Glycerol	-1.76	-	Low
Herculase II 5X Rxn Buffer Hexadecan-1-ol, ethoxylated	>6.06	-	High

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: 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.
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Section 14. Transport information

ADG / IMDG / IATA	1	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	:	Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons 6

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

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	:	Not determined.
New Zealand	:	Not determined.
United States	;	Not determined.

Section 16. Any other relevant information

<u>History</u>	
Date of issue/Date of revision	: 30/04/2024
Date of previous issue	: 29/03/2021
Version	: 3
Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
MSO FLAMMABLE LIQUIDS - Category 4 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B Herculase II Fusion Enzyme 30,0000 rxn	
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2B Herculase II 5X Rxn Buffer	Calculation method
Date of issue/Date of revision : 30/04/2024 Date of previo	us issue : 29/03/2021 Version : 3 21/22

Section 16. Any other relevant information

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A Calculation method

✓ Indicates information that has changed from previously issued version.

Notice to reader

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