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

: MSO Part no. 930689-54

> Herculase II Fusion Enzyme 30,0000 rxn 930689-51 Herculase II 5X Rxn Buffer 930689-52 dNTPs 100mM 930689-53

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

Identified uses : Analytical reagent.

> **MSO** 2 x 37.5 ml

Herculase II Fusion Enzyme 30,0000 rxn 1 x 30 ml (30,0000 reaction)

Herculase II 5X Rxn Buffer 9 x 50 ml dNTPs 100mM 1 x 15 ml

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

DMSO

H227 FLAMMABLE LIQUIDS - Category 4 H320 EYE IRRITATION - Category 2B

Herculase II Fusion Enzyme

30.0000 rxn

H320 EYE IRRITATION - Category 2B

GHS label elements

Signal word : MSO Warning

Warning Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer No signal word. dNTPs 100mM No signal word.

Hazard statements MSO H227 - Combustible liquid.

> H320 - Causes eye irritation. H320 - Causes eye irritation.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer

No known significant effects or critical hazards. dNTPs 100mM No known significant effects or critical hazards.

Precautionary statements

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Section 2. Hazard identification

Prevention : DMSO P210 - Keep away from heat, hot surfaces, sparks,

open flames and other ignition sources. No smoking.

Herculase II Fusion Enzyme Not applicable.

30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

Not applicable. Not applicable.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously : DMSO Response

> 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

advice or attention.

Herculase II 5X Rxn Buffer

dNTPs 100mM

Not applicable. Not applicable.

: MSO Not applicable. **Storage** Herculase II Fusion Enzyme

30,0000 rxn

Not applicable.

Herculase II 5X Rxn Buffer Not applicable. dNTPs 100mM Not applicable.

Disposal : DMSO P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

Not applicable. Not applicable.

Not applicable. None known.

Supplemental label

elements

: MSO

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

None known. None known.

None known.

dNTPs 100mM Percentage of the mixture consisting of ingredient(s)

of unknown hazards to the aquatic environment: 5.4%

Other hazards which do not : DMSO result in classification

None known. None known.

Herculase II Fusion Enzyme 30,0000 rxn

Herculase II 5X Rxn Buffer

None known.

dNTPs 100mM None known.

Section 3. Composition/information on ingredients

MSO Substance/mixture

Herculase II Fusion Enzyme 30.0000 rxn

Mixture

Substance

Herculase II 5X Rxn Buffer

Mixture Mixture

dNTPs 100mM

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Section 3. Composition/information on ingredients

Ingredient name	Synonyms	% (w/w)	CAS number
D MSO			
Dimethyl sulfoxide	DMSO	100	67-68-5
Herculase II Fusion Enzyme 30,0000 rxn			
Glycerol	Glycerol	≥30 - ≤60	56-81-5
Herculase II 5X Rxn Buffer			
Trometamol	Tris	≥1 - ≤5	77-86-1
Hexadecan-1-ol, ethoxylated	Hexadecan-1-ol, ethoxylated	≥1 - ≤5	9004-95-9

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. Fir	st-aid measures	
Description of neces	sary first aid measures	
Eye contact	: MSO	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. Get medical attention if irritation occurs.
	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

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Herculase II Fusion Enzyme

30,0000 rxn

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

Section 4. First-aid measures

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 5X Rxn Buffer

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

dNTPs 100mM

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 : DMSO

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.
Flush contaminated skin with plenty of water.

Herculase II Fusion Enzyme 30,0000 rxn

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. Flush contaminated skin with plenty of water.

Herculase II 5X Rxn Buffer

Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Flush contaminated skin with plenty of water.

dNTPs 100mM

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion : DMSO

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

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Section 4. First-aid measures

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. 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. If material has been dNTPs 100mM

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

Over-exposure signs/symptoms

Eye contact

Inhalation

: MSO **Eye contact** Causes eye irritation. Causes eye irritation. Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards. No known significant effects or critical hazards.

dNTPs 100mM

Inhalation : MSO No known significant effects or critical hazards. 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 No known significant effects or critical hazards.

dNTPs 100mM

Skin contact : DMSO No known significant effects or critical hazards. No known significant effects or critical hazards.

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

Ingestion MSO No known significant effects or critical hazards.

Herculase II Fusion Enzyme

30,0000 rxn

: DMSO

Herculase II 5X Rxn Buffer

dNTPs 100mM

Adverse symptoms may include the following:

No known significant effects or critical hazards.

irritation watering

redness

Herculase II Fusion Enzyme

30,0000 rxn

Adverse symptoms may include the following:

irritation watering

redness

Herculase II 5X Rxn Buffer No specific data.

dNTPs 100mM

No specific data. No specific data.

Herculase II Fusion Enzyme

: DMSO

30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

No specific data. No specific data.

No specific data.

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Section 4. First-aid measures

Ingestion

: MSO Skin contact No specific data. No specific data. Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

: DMSO No specific data. No specific data.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

No specific data. No specific data.

No specific data.

No specific data.

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

: MSO Notes to physician Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Herculase II Fusion Enzyme

30,0000 rxn

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.

: MSO **Specific treatments** No specific treatment. No specific treatment.

Herculase II Fusion Enzyme

30.0000 rxn

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.

dNTPs 100mM 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

: MSO

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer

Use dry chemical, CO₂, water spray (fog) or foam.

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the

surrounding fire.

dNTPs 100mM Use an extinguishing agent suitable for the

surrounding fire.

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Section 5. Fire-fighting measures

Unsuitable extinguishing media

: MSO
Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer dNTPs 100mM

Do not use water jet.

None known.

None known. None known.

Specific hazards arising from the chemical

: MSO

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 vapor/gas is heavier than air and will spread along the ground. Vapors 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.

In a fire or if heated, a pressure increase will occur

dNTPs 100mM

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

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

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Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: MSO

action shall be taken involving any personal risk or

without suitable training.

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, protective equipment and emergency procedures

For non-emergency personnel

: MSO

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear

mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate.

Herculase II 5X Rxn Buffer

Put on appropriate personal protective equipment. No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected

personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal

protective equipment.

dNTPs 100mM 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: MSO 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". If specialized clothing is required to deal with the

Herculase II Fusion Enzyme

30,0000 rxn

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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Section 6. Accidental release measures

Herculase II 5X Rxn Buffer

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". 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".

dNTPs 100mM

Environmental precautions : DMSO

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).

Herculase II Fusion Enzyme

30,0000 rxn

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).

Herculase II 5X Rxn Buffer

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 gir)

soil or air).

dNTPs 100mM

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 : ☑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 disposal contractor.

Herculase II 5X Rxn 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.

dNTPs 100mM

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

Precautions for safe handling

Protective measures

: MSO

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.

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or

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 vapor 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

Herculase II Fusion Enzyme

Herculase II 5X Rxn Buffer

Put on appropriate personal protective equipment (see Section 8).

dNTPs 100mM

30,0000 rxn

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: DMSO

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.

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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.

dNTPs 100mM

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Section 7. Handling and storage

Conditions for safe storage, : DMSO including any incompatibilities

Herculase II Fusion Enzyme 30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM

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 oxidizing 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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for 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 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

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Section 8. Exposure controls/personal protection

Ingredient name	Exposure limits
D MSO	
Dimethyl sulfoxide	OARS WEEL (United States, 4/2022). TWA: 250 ppm 8 hours.
Herculase II Fusion Enzyme 30,0000 rxn	
Glycerol	CA Alberta Provincial (Canada, 6/2018). OEL: 10 mg/m³ 8 hours. Form: Mist CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 mg/m³ 8 hours. Form: mist CA Saskatchewan Provincial (Canada, 7/2013). STEL: 20 mg/m³ 15 minutes. Form: mist TWA: 10 mg/m³ 8 hours. Form: mist CA British Columbia Provincial (Canada, 6/2023). TWA: 3 mg/m³ 8 hours. Form: respirable mist TWA: 10 mg/m³ 8 hours. Form: total mist

Biological exposure indices

No exposure indices known.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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Section 8. Exposure controls/personal protection

: Personal protective equipment for the body should be selected based on the task **Body protection** being performed and the risks involved and should be approved by a specialist

before handling this product.

: Appropriate footwear and any additional skin protection measures should be Other skin protection

selected based on the task being performed and the risks involved and should be

approved by a specialist before handling this product.

: Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 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 : DMSO Liquid. [Clear.]

Herculase II Fusion Enzyme Liquid.

30.0000 rxn

Herculase II 5X Rxn Buffer Liquid. dNTPs 100mM Liquid.

Color MSO Colorless. Not available.

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available.

: DMSO Odor Odorless. [Slight] Not available. Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available.

: MSO Not available. Odor threshold Herculase II Fusion Enzyme Not available.

30,0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM Not available.

Not available.

Not available.

pН : DMSO Not available. 8.2

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer 9.5 to 10.5 dNTPs 100mM 7.5

Melting point/freezing point MSO 18.5°C (65.3°F) Not available.

Herculase II Fusion Enzyme 30.0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM Not available.

Boiling point, initial boiling : DMSO 189°C (372.2°F) point, and boiling range Herculase II Fusion Enzyme Not available.

30.0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available.

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Section 9. Physical and chemical properties and safety characteristics

Flash point : MSO Closed cup: 87°C (188.6°F) [ASTM D 93]

Open cup: 87°C (188.6°F) Not available.

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available.

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
Ferculase II Fusion Enzyme 30,0000 rxn						
Glycerol	-	-	-	177	350.6	-

Evaporation rate : DMSO 0.026 (butyl acetate = 1)

Not available. Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available. : MSO Not applicable.

Herculase II Fusion Enzyme Not applicable.

30,0000 rxn

Flammability

Lower and upper explosion

limit/flammability limit

Herculase II 5X Rxn Buffer Not applicable. dNTPs 100mM Not applicable.

: MSO Lower: 2.6% Upper: 28.5% Not available.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available.

: MSO Vapor pressure 0.056 kPa (0.42 mm Hg) [EU A.4]

	Vapoi	r Pressui	re at 20°C	Vapor pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
Herculase II Fusion Enzyme 30,0000 rxn						
water	17.5	2.3	-	92.258	12.3	-
Glycerol	0.000075	0.00001	-	0.0025	0.00033	-
Herculase II 5X Rxn Buffer						
water	17.5	2.3	-	92.258	12.3	-
Trometamol	<0.00075006	<0.0001	-	-	-	-
dNTPs 100mM						
water	17.5	2.3	-	92.258	12.3	-

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Section 9. Physical and chemical properties and safety characteristics

Relative vapor density : MSO 2.7 [Air = 1] Herculase II Fusion Enzyme Not available. 30.0000 rxn Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available. **MSO Relative density** Herculase II Fusion Enzyme Not available. 30,0000 rxn Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available. Solubility(ies) : Media **Result D**MSO water Soluble Herculase II Fusion Enzyme 30,0000 rxn Soluble Herculase II 5X Rxn Buffer Soluble water dNTPs 100mM water Soluble Partition coefficient: n-: DMSO -1.35Herculase II Fusion Enzyme Not applicable. octanol/water 30,0000 rxn Herculase II 5X Rxn Buffer Not applicable. dNTPs 100mM Not applicable. **Auto-ignition temperature** : DMSO 300 to 302°C (572 to 575.6°F) °C Ingredient name °F Method Herculase II Fusion Enzyme 30.0000 rxn 370 Glycerol 698 140 to 189°C (284 to 372.2°F) **Decomposition temperature** MSO Herculase II Fusion Enzyme Not available. 30,0000 rxn Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available. **Viscosity** : DMSO Dynamic: 2.14 mPa·s (2.14 cP) Herculase II Fusion Enzyme Not available. 30,0000 rxn Herculase II 5X Rxn Buffer Not available. dNTPs 100mM Not available. **Particle characteristics** Median particle size : DMSO Not applicable. Herculase II Fusion Enzyme Not applicable.

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Not applicable.

Not applicable.

30,0000 rxn

dNTPs 100mM

Herculase II 5X Rxn Buffer

Section 10. Stability and reactivity

Reactivity

: MSO

No specific test data related to reactivity available for

this product or its ingredients.

Herculase II Fusion Enzyme

30.0000 rxn

No specific test data related to reactivity available for

this product or its ingredients.

Herculase II 5X Rxn Buffer

No specific test data related to reactivity available for

this product or its ingredients.

dNTPs 100mM

No specific test data related to reactivity available for

this product or its ingredients.

Chemical stability

: DMSO

The product is stable.

Herculase II Fusion Enzyme

30.0000 rxn

The product is stable.

Herculase II 5X Rxn Buffer

dNTPs 100mM

Shelf life: 1 Year. Shelf life: 1 Year.

Possibility of hazardous reactions

: DMSO

Under normal conditions of storage and use,

hazardous reactions will not occur.

Herculase II Fusion Enzyme

30.0000 rxn

Under normal conditions of storage and use,

hazardous reactions will not occur.

Herculase II 5X Rxn Buffer

Under normal conditions of storage and use,

hazardous reactions will not occur.

dNTPs 100mM

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 pressurize, cut, weld, braze, solder, drill, grind

or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined

areas.

Herculase II Fusion Enzyme

30.0000 rxn

No specific data.

Herculase II 5X Rxn Buffer

dNTPs 100mM

No specific data. No specific data.

Incompatible materials

: DMSO

Reactive or incompatible with the following materials:

oxidizing materials

Herculase II Fusion Enzyme

30.0000 rxn

May react or be incompatible with oxidizing materials.

Herculase II 5X Rxn Buffer dNTPs 100mM

May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.

Hazardous decomposition products

: MSO

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.

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Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
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 Trometamol Hexadecan-1-ol, ethoxylated	LD50 Dermal LD50 Oral	Rat Rat	>5000 mg/kg 2500 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
M SO					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	_	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 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Herculase II 5X Rxn Buffer					
Trometamol	Skin - Moderate irritant	Rabbit	-	25 %	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

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)

Name	3 3 3	Route of exposure	Target organs
Herculase II 5X Rxn Buffer Trometamol	Category 3		Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

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Not available.

Aspiration hazard

Not available.

Skin contact

Information on the likely routes of exposure

: MSO 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 Routes of entry anticipated: Oral, Dermal, Inhalation,

Eves.

dNTPs 100mM Not available.

Potential acute health effects

Eye contact : MSO Causes eye irritation. Herculase II Fusion Enzyme Causes eye irritation.

30,0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM

Inhalation **MSO** No known significant effects or critical hazards.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM

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

Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards. No known significant effects or critical hazards.

dNTPs 100mM

: MSO

No known significant effects or critical hazards.

Ingestion : MSO Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer

dNTPs 100mM No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

: MSO **Eye contact** Adverse symptoms may include the following:

> irritation watering redness

Herculase II Fusion Enzyme

30,0000 rxn

Adverse symptoms may include the following:

irritation watering

redness Herculase II 5X Rxn Buffer No specific data.

dNTPs 100mM No specific data.

Inhalation : MSO No specific data. No specific data.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer dNTPs 100mM

No specific data. No specific data.

: MSO **Skin contact** 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.

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Section 11. Toxicological information

: MSO Ingestion No specific data. Herculase II Fusion Enzyme No specific data.

30.0000 rxn

Herculase II 5X Rxn Buffer No specific data. dNTPs 100mM No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General : DMSO No known significant effects or critical hazards.

No known significant effects or critical hazards. Herculase II Fusion Enzyme

30.0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM No known significant effects or critical hazards.

Carcinogenicity **MSO** No known significant effects or critical hazards. No known significant effects or critical hazards.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM No known significant effects or critical hazards.

: DMSO Mutagenicity No known significant effects or critical hazards. No known significant effects or critical hazards.

Herculase II Fusion Enzyme 30,0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM No known significant effects or critical hazards.

Reproductive toxicity **MSO** No known significant effects or critical hazards. No known significant effects or critical hazards.

Herculase II Fusion Enzyme

30,0000 rxn

Herculase II 5X Rxn Buffer No known significant effects or critical hazards.

dNTPs 100mM 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)
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	112802.7 2500	N/A N/A	N/A N/A	N/A N/A	N/A N/A

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Section 11. Toxicological information

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
D MSO			
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 - <i>Ulva lactuca</i>	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			
Trometamol	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours
Hexadecan-1-ol, ethoxylated	Acute LC50 330000 to 1000000 μg/l Marine water	Crustaceans - Crangon crangon - Adult	48 hours

Persistence and degradability

Hexadecan-1-ol, ethoxylated

Product/ingredient name	Test	Result		Dose	Inoculum
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		-	-
Herculase II 5X Rxn Buffer Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 2	'8 days	30 mg/l	-
Product/ingredient name	Aquatic half-life		Photolysi	S	Biodegradability
Dimethyl sulfoxide	-		-		Not readily
Herculase II 5X Rxn Buffer Trometamol	-		_		Readily

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Readily

Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
MSO Dimethyl sulfoxide	-1.35	3.16	Low
Herculase II Fusion Enzyme 30,0000 rxn Glycerol	-1.76	-	Low
Herculase II 5X Rxn Buffer Trometamol Hexadecan-1-ol, ethoxylated	-2.31 >6.06	-	Low High

Mobility in soil

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 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. 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 : Not available.

to IMO instruments

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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 : Not determined.

Section 16. Other information

History

Date of issue/Date of

revision

: 04/30/2024

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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
3 ,	On basis of test data On basis of test data
Herculase II Fusion Enzyme 30,0000 rxn EYE IRRITATION - Category 2B	Calculation method

Indicates information that has changed from previously issued version.

Notice to reader

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Section 16. Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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