

SAFETY DATA SHEET

VD2020084 FS#-Whole Genome Primer Set 2 (15055272)

Issuing Date 02-Dec-2020 Revision Date 02-Dec-2020 Revision A

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name FS#-WGPS2, ForenSeq™ Whole Genome Primer Set 2

Other means of identification

Product Codes(s) 15055272

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use reagent

Details of the supplier of the safety data sheet

Manufacturer Address Company Phone Number E-mail address

Verogen, Inc. +1-858-285-4101 <u>techsupport@verogen.com</u>

11111 Flintkote Avenue +1-833-837-6436 toll free (North America)

San Diego, CA 92121 USA +44-(0)-208-054-8706 (UK) www.verogen.com (858)-381-5209 (fax)

2. HAZARDS IDENTIFICATION

GHS Classification

OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

Label elements

Emergency Overview

Signal word

None

Hazard statements

Not hazardous

The product contains no substances which at their given concentration are considered to be hazardous to health.

Appearance Colorless liquid Physical state Liquid Odor Odorless

Precautionary Statements - Prevention

Handle in accordance with good industrial hygiene and safety practice.

Precautionary Statements - Storage

Store away from incompatible materials.

Precautionary Statements - Disposal

Dispose of in accordance with federal, state and local regulations.

Hazards not otherwise classified (HNOC)

Not applicable.

Other Information

Unknown acute toxicity 17.2 % of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration are considered to be hazardous to health.

4. FIRST AID MEASURES

Description of first aid measures

General Advice Use first aid treatment according to the nature of the injury.

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and

persists.

Skin Contact Wash skin with soap and water. Get medical attention if irritation develops and persists.

Inhalation If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion Get medical advice/attention.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved and take precautions to

protect themselves.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Water, Water spray (fog), Foam, Dry chemical, Carbon dioxide (CO2).

Unsuitable extinguishing media

None known.

Specific hazards arising from the chemical

None known.

Hazardous combustion products

No information available.

Explosion data

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautionsUse personal protective equipment as required.

For emergency responders Use personal protection recommended in Section 8. Keep unnecessary personnel away.

Environmental precautions

Environmental precautions Avoid discharge into drains, water courses, or onto the ground.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later

disposal.

Methods for cleaning up

Use personal protective equipment as required. Contain and collect spillage with non-

combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). Large spill. Prevent runoff from entering drains, sewers, or streams. Dike far ahead of liquid

spill for later disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Handle in accordance with good industrial

hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep/store only in original

container. Store away from incompatible materials.

Incompatible materials Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protectionWear chemical-resistant gloves, footwear and protective clothing appropriate for risk of

exposure. Contact glove manufacturer for specific information.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice. Wash after handling

this material and before eating, drinking and/or smoking. Regular cleaning of equipment,

work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid

Appearance Colorless liquid
Odor Odorless
Color Colorless

Odor threshold No information available

Property Values Remarks • Methods

pH No data availableMelting point / freezing point No data available

Boiling point / boiling range

Flash point

Evaporation rate No data available Flammability (solid, gas) No data available

Flammability Limit in Air

Upper flammability or explosive limits: No data available Lower flammability or explosive limits: No data available Vapor pressure No data available Vapor density No data available Specific gravity No data available Water solubility No data available Solubility in other solvents No data available **Partition coefficient** No data available **Autoignition temperature** No data available **Decomposition temperature** No data available Kinematic viscosity No data available Dynamic viscosity No data available

Explosive properties No unusual fire or explosion hazards noted.

Oxidizing properties No data available

Other Information

Softening pointNo data availableMolecular weightNo data availableVOC content (%)No data availableLiquid densityNo data availableBulk densityNo data available

10. STABILITY AND REACTIVITY

Reactivity

Chemical stability

Stable under normal conditions. Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization

Hazardous polymerization does not occur.

Conditions to avoid

None known.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product InformationLow hazard for usual industrial or commercial handling by trained personnel.

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation

hazard.

Eye ContactDirect contact with eyes may cause temporary irritation. **Skin Contact**Prolonged contact may cause redness and irritation.

Ingestion No harmful effects expected in amounts likely to be ingested by accident.

Information on toxicological effects

Symptoms None known.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Serious eye damage/eye irritation
Skin sensitization
Respiratory sensitization
Germ cell mutagenicity

Not classified.
Not classified.
Not classified.
Not classified.
Not classified.

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard
Not classified.
Not classified.
Not classified.

Other adverse effects No information available.

Numerical measures of toxicity - Product Information

Unknown acute toxicity 17.2 % of the mixture consists of ingredient(s) of unknown toxicity.

12. ECOLOGICAL INFORMATION

Ecotoxicity

0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.

Persistence and degradability

Not a PBT or vPvB substance or mixture.

Bioaccumulation

No data available.

Mobility

No data available.

Other adverse effects

No data available.

Ozone

Not classified.

Ozone depletion potential (ODP)

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packagingDo not reuse container. Disposal should be in accordance with applicable regional, national

and local laws and regulations.

14. TRANSPORT INFORMATION

DOT Not regulated **TDG** Not regulated **MEX** Not regulated ICAO (air) Not regulated IATA Not regulated **IMDF** Not regulated **RID** Not regulated **ADR** Not regulated **ADN** Not regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Does not comply DSL/NDSL Does not comply **EINECS/ELINCS** Does not comply Does not comply **ENCS IECSC** Does not comply **KECL** Does not comply **PICCS** Does not comply **AICS** Does not comply

INSQ This product complies with INSQ

Legend

TSCA—United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL—Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS—European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS—Japan Existing and New Chemical Substances

IECSC—China Inventory of Existing Chemical Substances

KECL—Korean Existing and Evaluated Chemical Substances

PICCS—Philippines Inventory of Chemicals and Chemical Substances

AICS—Australian Inventory of Chemical Substances

INSQ—Mexican National Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Acute health hazardNoChronic Health HazardNoFire hazardNoSudden release of pressure hazardNoReactive HazardNo

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Water	-	-	Χ
7732-18-5			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION						
NFPA HMIS	Health Hazards 0 Health Hazards 0			Instability 0 Physical Hazards 0	Physical and Chemical Properties - Personal Protection X	
Prepared By Issuing Date Revision Date Revision Note	Verogen, Inc. 02-Dec-2020 02-Dec-2020 Not applicable					

Disclaimer

Although reasonable care has been taken in the preparation of this document, Verogen makes no warranties or representations of any kind as to the accuracy or completeness of the information contained herein, and Verogen assumes no responsibility regarding the suitability of this information or the product for the user's intended purposes or for the consequences of use of this information or the use of the product. The user of this (M)SDS and product should make a determination as to the suitability of the information and the product for their particular purpose(s). To the extent provided by applicable law, Verogen shall not be held liable for any damage or expenses of any kind resulting from handling, use, storage, or disposal of the product.

End of Safety Data Sheet