

# SAFETY DATA SHEET

Issuing Date 04-Jan-2018 Revision date 22-Jan-2020 Revision Number 1.1

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

Product identifier

Product Name NX#-NPM.NEXTERA PCR MASTER MIX.24 RXN

Other means of identification

Product Code(s) 15027873

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use reagent

Details of the supplier of the safety data sheet

Manufacturer AddressCompany Phone NumberE-mail addressIllumina, Inc.1-858-809-ILMNSDS@illumina.com5200 Illumina Way1-858-202-4566

5200 Illumina Way San Diego, CA 92122 USA

www.illumina.com

Emergency telephone number

24 Hour Emergency Phone Number 1-760-476-3962

### 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

36.9 % 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.

Chemical name	CAS No	Weight-%	Trade Secret
Glycerol	56-81-5	1 - 5	*
Potassium chloride	7447-40-7	1 - 5	*

# 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

# 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 precautions**Use personal protective equipment as required.

**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

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Glycerol	-	TWA: 15 mg/m <sup>3</sup> mist, total	-
56-81-5		particulate	
		TWA: 5 mg/m³ mist, respirable	
		fraction	
		(vacated) TWA: 10 mg/m <sup>3</sup> mist,	
		total particulate	
		(vacated) TWA: 5 mg/m <sup>3</sup> mist,	
		respirable fraction	

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

**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 protection Wear 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

<u>Property</u> <u>Values</u> <u>Remarks</u> • <u>Method</u>

**pH** No data available

Melting point / freezing point

Boiling point / boiling range

No data available

Flash point

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

Flammability Limit in Air

Upper flammability or explosive No data available

limits

Lower flammability or explosive No data available

limits

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
No data available

**Explosive properties**No unusual fire or explosion hazards noted.

Oxidizing properties No data available

### Other information

Softening point

Molecular weight

VOC Content (%)

Liquid Density

Bulk density

No data available
No data available
No data available
No 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 Information Low 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 contact** Direct 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.

**Component Information** 

01 1	0 11050	D 11050	1114 1050	
Chemical name	Oral LD50	Dermal LD50	Inhalation LC50	
Glycerol = 12600 mg/kg (Rat)		> 10 g/kg (Rabbit)	> 570 mg/m³ (Rat) 1 h	
56-81-5				
Potassium chloride	= 2600 mg/kg (Rat)	-	-	
7447-40-7				

#### 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.

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
Not classified.
Not classified.

**Chronic toxicity** May cause adverse effects on the bone marrow and blood-forming system.

**Target organ effects** Eyes, kidney, Respiratory system, Skin, blood.

Aspiration hazard Not classified.

Other adverse effects No information available.

### Numerical measures of toxicity - Product Information

**Unknown acute toxicity** 36.9 % 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

Chemical name	Algae/aquatic plants	Fish	Crustacea
Propylene Glycol	19000 mg/L: EC50 96 h	41 - 47 mL/L: LC50 96 h	1000 mg/L: EC50 48 h Daphnia
57-55-6	Pseudokirchneriella subcapitata	Oncorhynchus mykiss static 51400	magna Static 10000 mg/L: EC50 24
		mg/L: LC50 96 h Pimephales	h Daphnia magna
		promelas static 51600 mg/L: LC50	-

	·		96 h Oncorhynchus mykiss static	
			710 mg/L: LC50 96 h Pimephales	
			promelas	
	Glycerol	-	51 - 57 mL/L: LC50 96 h	500 mg/L: EC50 24 h Daphnia
	56-81-5		Oncorhynchus mykiss static	magna
Po	otassium chloride	2500 mg/L: EC50 72 h	750 - 1020 mg/L: LC50 96 h	825 mg/L: EC50 48 h Daphnia
	7447-40-7	Desmodesmus subspicatus	Pimephales promelas static 1060	magna 83 mg/L: EC50 48 h
			mg/L: LC50 96 h Lepomis	Daphnia magna Static
			macrochirus static	
Po	olyethylene glycol	=	5000 mg/L: LC50 24 h Carassius	-
	25322-68-3		auratus	
Ma	agnesium chloride	2200 mg/L: EC50 72 h	1970 - 3880 mg/L: LC50 96 h	140 mg/L: EC50 48 h Daphnia
	7786-30-3	Desmodesmus subspicatus	Pimephales promelas static 4210	magna Static 1400 mg/L: EC50 24 h
		,	mg/L: LC50 96 h Gambusia affinis	Daphnia magna
			static	

### Persistence and degradability

Not a PBT or vPvB substance or mixture.

### **Bioaccumulation**

Chemical name	Partition coefficient
Glycerol	-1.76
56-81-5	

# **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 packaging Do 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

IMDG Not regulated

RID Not regulated

ADR Not regulated

ADN Not regulated

# 15. REGULATORY INFORMATION

**International Inventories** 

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

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 hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

# **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
Propylene Glycol X 57-55-6		-	Х
Glycerol X 56-81-5		X	Х

#### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION				
NFPA_	Health hazards 0	Flammability 1	Instability 0	Physical and Chemical Properties -
<u>HMIS</u>	Health hazards 0	Flammability 1	Physical hazards 0	Personal protection X
Prepared By	Illumina Inc.			

Prepared By
Illumina Inc.
Ussuing Date
O4-Jan-2018
Revision date
Revision Note
Usuary
Not applicable.

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**End of Safety Data Sheet**