# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878 Issue date: 01/12/2021 Version: 1.0



## SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture

Product name : RapiDxFire™ Lyo-Flex 1-step RT-qPCR 5X Master Mix, Catalog Number: 30060

Product group : Trade product

Product code : Catalog number 30060, Part number F836449

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

Use of the substance/mixture : Laboratory chemical

#### 1.2.2. Uses advised against

No additional information available

## 1.3. Details of the supplier of the safety data sheet

#### Supplier:

LGC Genomics LLC 2905 Parmenter Street Middleton, WI 53562 U.S.A.

#### OR Address:

Unit 1-2 Trident Industrial Estate, Pindar Road Hoddesdon, EN110WZ England

# 1.4. Emergency telephone number

Emergency number : + +44 (0)1992 470 757 (LGC: Monday-Friday, 8:00AM-5:00PM)

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

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#### 2.3. Other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
"Contains no hazardous ingredients at levels requiring disclosure by Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation			

## **SECTION 4: First Aid measures**

## 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an

unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water

: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

: IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : May cause minor respiratory irritation.

Symptoms/effects after skin contact : May cause minor skin irritation.

Symptoms/effects after eye contact : Direct contact with eyes is unlikely to be irritating. Symptoms/effects after ingestion : May cause minor gastrointestinal irritation.

# 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

First-aid measures after ingestion

# **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media : Foam. Carbon dioxide. Dry powder. Water spray.

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# 5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.

Explosion hazard : Product is not explosive.

Reactivity in case of fire : None known.

Hazardous decomposition products in case of fire : No information available.

#### 5.3. Advice for firefighters

Precautionary measures fire : Eliminate all ignition sources if safe to do so.

Firefighting instructions : Exercise caution when fighting any chemical fire. Use water spray or fog for cooling

exposed containers. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained cleaning

personnel properly equipped with respiratory and eye protection.

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air

respirator, in case of emergency.

## 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

# 6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or

streams. Prevent entry to sewers and public waters.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

This material and its container must be disposed of in a safe way, and as per local

legislation.

#### 6.4. Reference to other sections

See Sections 8 and 13.

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Keep container

closed when not in use. Wash hands and other exposed areas with mild soap and water

before eating, drinking or smoking and when leaving work.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in original container. Keep container closed when not in use. Containers which are

opened should be properly resealed and kept upright to prevent leakage. Store in a dry,

cool and well-ventilated place.

Incompatible materials : No data available.

#### 7.3. Specific end use(s)

Laboratory chemical

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# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

Sucrose (57-50-1)			
Belgium - Occupational Exposure Limits			
OEL TWA	10 mg/m³ (inhalable dust containing no asbestos and < 1% crystalline silica)		
France - Occupational Exposure Limits	rance - Occupational Exposure Limits		
VME (OEL TWA)	10 mg/m³		
Ireland - Occupational Exposure Limits			
OEL TWA [1]	10 mg/m³		
OEL STEL	20 mg/m³		
Spain - Occupational Exposure Limits			
VLA-ED (OEL TWA) [1]	10 mg/m³		
United Kingdom - Occupational Exposure Limits			
WEL TWA (OEL TWA) [1]	10 mg/m³		
WEL STEL (OEL STEL)	20 mg/m³		
JSA - ACGIH - Occupational Exposure Limits			
Local name	Sucrose		
ACGIH OEL TWA	10 mg/m³		
Remark (ACGIH)	TLV® Basis: Dental erosion. Notations: A4 (Not classifiable as a Human Carcinogen)		
Regulatory reference	ACGIH 2021		

#### 8.1.2. Recommended monitoring procedures

No additional information available

# 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

# 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

# 8.2.1. Appropriate engineering controls

# Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas.

#### 8.2.2. Personal protection equipment

#### Personal protective equipment:

Gloves. Protective goggles.

# Personal protective equipment symbol(s):





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#### 8.2.2.1. Eye and face protection

#### Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles [EN 167].

#### 8.2.2.2. Skin protection

#### Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure [EN 14605:2005 and EN 13034:2005].

#### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier

#### 8.2.2.3. Respiratory protection

#### Respiratory protection:

Use European Standard EN 529:2005 (or other equivalent national standard) -approved dust/particulate respirator. Where vapour, mist, or dust exceed PELs or other applicable OELs, use the European Standard EN 529:2005 approved dust/particulate respiratory protective equipment..

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

No additional information available

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Physical state : Liquid Colour Transparent. Odour Sweet. Odour threshold Not available Melting point : Not available Freezing point : Not available Boiling point : Not available Flammability : Not available **Explosive limits** : Not available Lower explosive limit (LEL) : Not available Upper explosive limit (UEL) Not available Not available Flash point Auto-ignition temperature Not available : Not available Decomposition temperature : Not available pН

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Viscosity, kinematic : Not applicable Solubility : Not available Partition coefficient n-octanol/water (Log Kow) : Not available : Not available Vapour pressure Vapour pressure at 50 °C : Not available Density : Not available Relative density : Not available Relative vapour density at 20 °C : Not available : Not applicable Particle size : Not applicable Particle size distribution Particle shape : Not applicable : Not applicable Particle aspect ratio : Not applicable Particle aggregation state Particle agglomeration state : Not applicable Particle specific surface area : Not applicable Particle dustiness : Not applicable

pH solution

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#### 9.2. Other information

# 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No dangerous reactions known under normal conditions of use.

#### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

# 10.3. Possibility of hazardous reactions

None under normal use.

#### 10.4. Conditions to avoid

None under normal use.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# **SECTION 11: Toxicological information**

#### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) Not classified Acute toxicity (dermal) Not classified Acute toxicity (inhalation) Not classified Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified Respiratory or skin sensitisation Not classified Germ cell mutagenicity Not classified : Not classified Carcinogenicity Reproductive toxicity : Not classified STOT-single exposure : Not classified STOT-repeated exposure Not classified Aspiration hazard Not classified

# RapiDxFire™ Lyo-Flex 1-step RT-qPCR 5X Master Mix

Viscosity, kinematic Not applicable

#### 11.2. Information on other hazards

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

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## **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecology - general : No data available. Hazardous to the aquatic environment, short-term : Not classified

(acute)

Hazardous to the aquatic environment, long-term : Not classified

(chronic)

Sucrose (57-50-1)		
LC50 - Fish [1]		
Ammonium sulfate (7783-20-2)		
LC50 - Fish [1]	53 mg/l Source: ECHA	
EC50 - Crustacea [1]	121.7 mg/l Source: ECHA	

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

Sucrose (57-50-1)	ose (57-50-1)		
Partition coefficient n-octanol/water (Log Pow)	-3.7 Source: HSDB		
Ammonium sulfate (7783-20-2)			
Partition coefficient n-octanol/water (Log Pow)	0.48 Source: ECHA		

# 12.4. Mobility in soil

No additional information available

#### 12.5. Results of PBT and vPvB assessment

No additional information available

# 12.6. Endocrine disrupting properties

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

#### 12.7. Other adverse effects

Other adverse effects : No data available

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste treatment methods : Do not discharge to public wastewater systems without permit of pollution control

authorities. No discharge to surface waters is allowed without an specific permit.

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the

product to be released into the environment.

## **SECTION 14: Transport information**

In accordance with ADR / IMDG / IATA / ADN / RID

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## 14.1. UN number or ID number

UN-No. (ADR) : Not regulated UN-No. (IMDG) : Not regulated UN-No. (IATA) : Not regulated UN-No. (ADN) : Not regulated UN-No. (RID) : Not regulated UN-No. (RID)

# 14.2. UN proper shipping name

Proper Shipping Name (ADR) : Not regulated Proper Shipping Name (IMDG) : Not regulated Proper Shipping Name (IATA) : Not regulated Proper Shipping Name (ADN) : Not regulated Proper Shipping Name (RID) : Not regulated

#### 14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : Not regulated

**IMDG** 

Transport hazard class(es) (IMDG) : Not regulated

IATA

Transport hazard class(es) (IATA) : Not regulated

ADN

Transport hazard class(es) (ADN) : Not regulated

RID

Transport hazard class(es) (RID) : Not regulated

# 14.4. Packing group

Packing group (ADR) : Not regulated Packing group (IMDG) : Not regulated Packing group (IATA) : Not regulated Packing group (ADN) : Not regulated Packing group (RID) : Not regulated Packing group (RID) : Not regulated

## 14.5. Environmental hazards

Dangerous for the environment : No Marine pollutant : No

Other information : No supplementary information available

# 14.6. Special precautions for user

# Overland transport

Not regulated

#### Transport by sea (IMDG)

Not regulated

#### Air transport (IATA)

Not regulated

# Inland waterway transport

Not regulated

#### Rail transport

Not regulated

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## 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

#### **SECTION 15: Regulatory information**

#### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021 or are otherwise exempt, or regulated by other agencies such as FDA or FIFRA

#### Germany

Water hazard class (WGK) : WGK nwg, Non-hazardous to water (Classification according to AwSV, Annex 1)

Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed SZW-lijst van reprotoxische stoffen – : None of the components are listed

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

# 15.2. Chemical safety assessment

No additional information available

# **SECTION 16: Other information**

# Indication of changes:

Revision 1.0: New SDS Created.

Other information : SDS Prepared for LGC Genomics LLC by:

Pace Analytical Services, Inc.
Product Regulatory Services Group
1800 Flm Street

Minneapolis, MN 55414 United States 612-656-1175

paceSDS@pacelabs.com

Data sources	: Globally Harmonized System of Classification and Labelling of Chemicals (GHS).
	Classification for the USA in accordance with 29 CFR 1910.1200 (2012).
	Classification for the EU in accordance with Regulation (EC) No 1272/2008 of the
	European Parliament and of the Council of 16 December 2008 on classification,
	labelling and packaging of substances and mixtures, amending and repealing
	Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No
	1907/2006.
	ECHA (European Chemicals Agency).

Educational advice	:	By normal use of this product is meant use in accordance with the instructions on the packaging.
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Abbreviations and	lacronyms			
ACGIH	American Conference of Governement Industrial Hygienists			
AGW	Arbeitsplatzgrenzwerte (German occupational exposure limits)			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways			
ADR European Agreement concerning the International Carriage of Dangerous Goods by Road				
ASTM	American Society for Testing and Materials			
AwSV	Ordinance on facilities for handling substances that are hazardous to water			
BEI	Biological Exposure Indices			
BCF	Bioconcentration factor			
BOD	Biological Oxygen Demand			
BLV	Biological limit values			
CAS-No.	Chemical Abstract Service number			
СС	Closed cup			
CFR	Code of Federal Regulations			
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008			
CMR	Carcinogenic, mutagenic, or toxic for reproduction			
CNS	Central nervous system			
COD	Chemical Oxygen Demand			
DNEL	Derived No-Effect Level			
EAC	Emergency action code			
EC50 Median effective concentration				
EC-No.	European Community number			
ED	Endocrine disrupting properties			
ED50	Median effective dose			
EmS-No. Emergency Schedules number				
EN European Standard				
ERG code	Emergency Response Guide code			
FDA	Food and Drug Administration (US agency)			
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act (US act)			
HAPS	Hazardous Air Pollutants			
IARC International Agency for Research on Cancer				
IATA	ATA International Air Transport Association			
IBC	Intermediate bulk container			
IMDG	International Maritime Dangerous Goods			
IOEL	Indicative Occupational Exposure Limit			
LC50	Median lethal concentration			
LD50	Median lethal dose			
LK	Lagerklassen (Switzerland storage class)			
LOAEL	Lowest Observed Adverse Effect Level			



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Abbreviations and acr	ronyms			
NDS	Najwyïsze dopuszczalne stκïenie na stanowisku pracy (Polish occupational exposure limit)			
NDSCh	Najwyïsze dopuszczalne stĸïenie chwilowe (Polish occupational exposure limit)			
NIOSH	National Institute for Occupational Safety and Health			
NOAEC	OAEC No Observed Adverse Effect Concentration			
NOAEL	No Observed Adverse Effect Level			
NOEC	No Observed Effect Concentration			
NTP	National Toxicology Program			
OECD	Organisation for Economic Co-operation and Development			
OEL	Occupational Exposure Limit			
OSHA	Occupational Safety and Health Administration (US agency)			
РВТ	Persistent Bioaccumulative Toxic			
PCA	Passenger and Cargo Aircraft			
PEL	Permissible Exposure Limit			
PNEC	Predicted No-Effect Concentration			
PPE Personal protective equipment				
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006				
RID Regulations concerning the International Carriage of Dangerous Goods by Rail				
SDS Safety Data Sheet				
STEL Short Term Exposure Limit				
STOT SE	Specific target organ toxicity – single exposure			
STOT RE	Specific target organ toxicity – repeated exposure			
STP	Sewage treatment plant			
SZW-lijst	Sociale Zaken en Werkgelegenheid (Netherlands CMR list)			
TLV	Threshold Limit Value			
TGG	Tijdgewogen gemiddelde (Netherlands occupational exposure limit)			
TRGS	Technical Rules for Hazardous Substances			
TSCA	Toxic Substances Control Act			
TWA	Time-Weighted Average			
UFI	Unique Formula Identifier			
UN-No.	o. United Nations number			
vPvB	Very Persistent and Very Bioaccumulative			
VLE	Valeurs limites d'exposition (French occupational exposure limits)			
VME	Valeur moyenne d'exposition (French occupational exposure limit)			
VOC	Volatile Organic Compounds			
WEL	Workplace Exposure Limit			
WGK	Water Hazard Class			

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Classification according to Regulation (EC) No. 1272/2008	Classification procedure
Not hazardous	Calculation method

Safety Data Sheet (SDS), EU

To the best of our knowledge, the information contained herein is accurate. However, Disclaimer: neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.