

This safety data sheet was created pursuant to the requirements of: OSHA HCS2012

Revision date 09-Apr-2025 Revision Number 1

1. Identification

Product identifier

Product Name dC (Ac) CE-Phosphoramidite

Other means of identification

Product Code(s) LK2034

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use This product is for research and development only

Restrictions on use Not to be used for human or animal consumption

Details of the supplier of the safety data sheet

Supplier Address

LGC Genomics Ltd. 3 Mallard Way, Strathclyde Business Bark Bellshill ML4 3BF

UK

Tel: +44 (0) 1698 849911 (between 9am-5pm GMT)

E-mail genomics.sdsrequest@lgcgroup.com

Emergency telephone number

Emergency Telephone

For Hazardous Materials or Dangerous Goods Incidents, Spills, Leaks, Fires, or Exposures, Call CHEMTREC: +17035273887

2. Hazard(s) identification

Classification

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

Hazards not otherwise classified (HNOC)

Not applicable

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Label elements

Hazard statements

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

Precautionary Statements - Response

Hazards classified under paragraph (d)(1)(i)(B) of 1910.1200

No information available.

Other information

No information available.

3. Composition/information on ingredients

Substance

Formula C41 H50 N5 O8 P

Chemical name	CAS No.	Weight-%	Trade secret
dC(Ac) CE-Phosphoramidite	154110-40-4	100	-

4. First-aid measures

Description of first aid measures

Inhalation Remove to fresh air.

Eye contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin contact Wash skin with soap and water.

Ingestion Rinse mouth.

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Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Effects of Exposure No information available.

Indication of any immediate medical attention and special treatment needed

Note to physiciansTreat symptomatically.

5. Fire-fighting measures

surrounding environment.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the

chemical

No information available.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and

precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning upPick up and transfer to properly labeled containers.

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

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7. Handling and storage

Precautions for safe handling

Advice on safe handlingHandle in accordance with good industrial hygiene and safety practice.

General hygiene considerations Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this

product. Wash hands before breaks and after work. Wear suitable gloves and eye/face

protection.

Conditions for safe storage, including any incompatibilities

Storage Conditions Please refer to the manufacturer's certificate for specific storage and transport temperature

conditions. Store only in the original receptacle unless other advice is given on the CoA.

8. Exposure controls/personal protection

Control parameters

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

exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits

This product, as supplied, does not contain any hazardous materials with biological 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 Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

Hand protection The protective gloves to be used must comply with the specifications of EC Directive

89/686/EEC and the related standard EN374. Wear protective Viton™ gloves.

Skin and body protection Wear suitable protective clothing.

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Respiratory protection Appropriate respiratory protection should be selected and used according to the chemical

nature, hazards and use of this product and safety requirements of the local jurisdiction. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be

required.

Environmental exposure controls Do not allow into any sewer, on the ground or into any body of water.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance Solid Physical state Solid

Color No information available Odor (includes odor threshold) No information available

Property Values Remarks • Method

Melting point / freezing pointNo data availableNone knownBoiling point (or initial boiling point orNo data availableNone known

boiling point (or initial boiling point or No data available None known boiling range)

Flammability No data available None known Flammability Limit in Air None known

Upper flammability or explosive limits

No data available

No data available

Flash pointNo data availableNone knownAutoignition temperatureNo data availableNone known

Decomposition temperature No data available None known No data available None known SADT (°C) No data available None known pH (as aqueous solution) No data available None known Kinematic viscosity No data available None known **Dynamic viscosity** No data available None known Solubility No data available None known

 Water solubility
 No data available
 None known

 Partition coefficient n-octanol/water (log
 No data available
 None known

value)
Vapor pressure (includes evaporation rate)No data available
None known

Density and/or relative density

No data available

None known

Bulk density

No data available

Liquid DensityNo data availableRelative vapor densityNo data availableNone known

Particle characteristics
No data available
No data available

Particle Size Distribution No data available

Other information

Molecular formula C41 H50 N5 O8 P

Molecular weight 771.8

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Information with regard to physical hazard classes

10. Stability and reactivity

Reactivity No information available.

Chemical stability Stable under normal conditions.

Possibility of hazardous reactions None under normal processing.

Conditions to avoid None known based on information supplied.

Incompatible materialsNone known based on information supplied.

Hazardous decomposition products None known based on information supplied.

11. Toxicological information

Information on likely routes of exposure

Inhalation Specific test data for the substance or mixture is not available.

Eye contact Specific test data for the substance or mixture is not available.

Skin contact Specific test data for the substance or mixture is not available.

Ingestion Specific test data for the substance or mixture is not available.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

No information available

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

Skin corrosion/irritationNo information available.

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Serious eye damage/eye irritation No information available.

Respiratory or skin sensitization No information available.

Germ cell mutagenicity No information available.

Carcinogenicity No information available.

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

12. Ecological information

Ecotoxicity The environmental impact of this product has not been fully investigated.

Persistence and degradability No information available.

Bioaccumulation There is no data for this product.

Other adverse effects No information available.

13. Disposal considerations

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Disposal methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

Contaminated packaging Do not reuse empty containers.

14. Transport information

DOT Not regulated

15. Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

TSCA LGC has not confirmed that the chemical substances in this product are on the TSCA

Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided

at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the

requirements that apply to its use of this product.

DSL/NDSLContact supplier for inventory compliance status.EINECS/ELINCSContact supplier for inventory compliance status.ENCSContact supplier for inventory compliance status.IECSCContact supplier for inventory compliance status.

KECL Contact supplier for inventory compliance status.
PICCS Contact supplier for inventory compliance status.
AllC Contact supplier for inventory compliance status.

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NZIOC Contact supplier for inventory compliance status.

TCSI Contact supplier for inventory compliance status.

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 Chemicals Inventory

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

TCSI - Taiwan Chemical Substance Inventory

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

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

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).

CAA (Clean Air Act)

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

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

This product does not contain any substances regulated under applicable state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

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16. Other information

NFPA Health hazards 0 Flammability 0 Instability 0 Special hazards - HMIS Health hazards 0 Flammability 0 Physical hazards 0 Personal protection -

Key or legend to abbreviations and acronyms used in the safety data sheet

ACGIH	American Conference of Governmental Industrial Hygienists		
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterway		
	(Europe)		
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)		
AIIC	Australian Inventory of Industrial Chemicals		
ATE	Acute Toxicity Estimate		
ASTM	American Society for the Testing of Materials		
bar	Biological Reference Values for Chemical Compounds in the Work Area		
BAT	Biological tolerance values for occupational exposure		
BEL	Biological exposure limits		
bw	Body weight		
Ceiling	Maximum limit value		
CMR	Carcinogen, Mutagen or Reproductive Toxicant		
DOT	Department of Transportation (United States)		
DSL	Domestic Substances List (Canada)		
EmS	Emergency Schedule		
ENCS	Existing and New Chemical Substances (Japan)		
EPA	Environmental Protection Agency		
GHS	Globally Harmonized System		
HMIS	Hazardous Materials Identification System		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous		
	Chemicals in Bulk		
ICAO	International Civil Aviation Organization		
IECSC	Inventory of Existing Chemical Substances in China		
IMDG	International Maritime Dangerous Goods		
IMO	International Maritime Organization		
ISO	International Organization for Standardization		
KECI Korean Existing Chemicals Inventory			
LC50	Lethal Concentration to 50% of a test population		
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)		
MARPOL	International Convention for the Prevention of Pollution from Ships		
NFPA	National Fire Protection Association		
NIOSH	National Institute for Occupational Safety and Health		
n.o.s.	Not Otherwise Specified		
NOAEC	No Observed Adverse Effect Concentration		

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NOAEL	No Observed Adverse Effect Level		
NOELR	No Observable Effect Loading Rate		
NTP	National Toxicology Program (United States)		
NZIoC	New Zealand Inventory of Chemicals		
OECD	Organization for Economic Cooperation and Development		
OEL	Occupational exposure limits		
OSHA	Occupational Safety and Health Administration of the US Department of Labor		
PBT	Persistent, Bioaccumulative and Toxic substance		
PICCS	Philippines Inventory of Chemicals and Chemical Substances		
PMT	Persistent, Mobile and Toxic		
PPE	Personal protective equipment		
QSAR	Quantitative Structure Activity Relationship		
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)		
SADT	Self-Accelerating Decomposition Temperature		
SAR	Structure-activity relationship		
SARA	Superfund Amendments and Reauthorization Act		
SDS			
SL	Surface Limit		
STEL	Short Term Exposure Limit		
STOT RE	Specific target organ toxicity - Repeated exposure		
STOT SE	Specific target organ toxicity - Single exposure		
TCSI	Taiwan Chemical Substance Inventory		
TDG	Transport of Dangerous Goods (Canada)		
TSCA	Toxic Substances Control Act (United States)		
TWA	Time-Weighted Average		
UN	United Nations		
VOC	Volatile organic compounds		
vPvB	Very Persistent and Very Bioaccumulative		
vPvM	Very Persistent and Very Mobile		
Sen+	Sensitizer		
Sk* **	Skin designation		
**	Hazard Designation		

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

National Institute of Technology and Evaluation (NITE)

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Development High Production Volume Chemicals Program

Organization for Economic Co-operation and Development Screening Information Data Set

World Health Organization

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No information available. **Revision Note**

Disclaimer

The information in this safety data sheet (SDS) has been prepared with due care and is true and accurate to the best of our knowledge. The user must determine the suitability of the information for its particular purpose, ensure compliance with existing laws and regulations, and be aware that other or additional safety or performance considerations may arise when using, handling and/ or storing the material. The information in this SDS does not purport to be all inclusive or a quarantee as to the properties of the material supplied, and should be used only as a quide. LGC makes no warranties or representations as to the accuracy and completeness of the information contained herein, shall not be held responsible for the suitability of this information for the user's intended purposes or the consequences of such use, and shall not be liable for any damage or loss, howsoever arising, direct or otherwise.

End of Safety Data Sheet

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