

**Safety Data Sheet**

according to UK REACH Regulation

**CIDG**

Revision date: 12.04.2022

Product code: 1110

Page 1 of 4

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

CIDG

**Further trade names**

D-glucose, 2-chloro-2-deoxy-

Synonyms: 2-chloro-2-deoxy-D-glucose; 2-Chloro-DG; CIDG; 2-CIDG

Substance name: 2-Chloro-2-deoxy-D-glucose

CAS No: 14685-79-1

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**Analytical standard for validation of [<sup>18</sup>F]FDG synthesis (2-[<sup>18</sup>F]Fluoro-2-deoxy-D-glucose)**1.3. Details of the supplier of the safety data sheet**

Company name:	ABX advanced biochemical compounds Biomedizinische Forschungsreagenzien GmbH	
Street:	Heinrich-Gläser-Straße 10-14	
Place:	01454 Radeberg	
Telephone:	+49 3528 4041 60	Telefax: +49 3528 4041 65
e-mail:	info@abx.de	
Contact person:	Dr. Christoph Meyer	Telephone: +49 3528 4041 8732
e-mail:	meyer@abx.de	
Internet:	http://www.abx.de	

**1.4. Emergency telephone number:**

+49 3528 4041 60

**SECTION 2: Hazards identification****2.2. Label elements****GB CLP Regulation**

Signal word: Warning

**Hazard statements**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H332	Harmful if inhaled.

**SECTION 3: Composition/information on ingredients****3.1. Substances**Sum formula: C<sub>6</sub>H<sub>11</sub>ClO<sub>5</sub>

Molecular weight: 198.6

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
14685-79-1	2-Chloro-2-deoxy-D-glucose			95 - < 100 %

Full text of H and EUH statements: see section 16.

# Safety Data Sheet

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**CIDG**

Revision date: 12.04.2022

Product code: 1110

Page 2 of 4

**SECTION 4: First aid measures****4.1. Description of first aid measures****After inhalation**

Provide fresh air. Medical treatment necessary.

**After contact with skin**

After contact with skin, wash immediately with: Water. Change contaminated clothing.

**After contact with eyes**

If product gets into the eye, keep eyelid open and rinse immediately with large quantities of water, for at least 5 minutes. Subsequently consult an ophthalmologist.

**After ingestion**

If swallowed, immediately drink: Water. Medical treatment necessary.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon monoxide Carbon dioxide (CO<sub>2</sub>).

In case of fire and/or explosion do not breathe fumes.

**5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**Additional information**

Suppress gases/vapours/mists with water spray jet. Contaminated fire-fighting water must be collected separately. Do not allow to enter into surface water or drains.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Provide adequate ventilation. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes. Wear personal protection equipment.

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

**6.3. Methods and material for containment and cleaning up****Other information**

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal. Clear contaminated areas thoroughly.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust. When using do not eat, drink, smoke, sniff.

**Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Protect skin by using skin protective cream. After work, wash hands and face. When using do not eat or drink.

**7.2. Conditions for safe storage, including any incompatibilities**

# Safety Data Sheet

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## CIDG

Revision date: 12.04.2022

Product code: 1110

Page 3 of 4

### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place. Store in a place accessible by authorized persons only. Restrict access to stockrooms. Store under (Gas): Nitrogen. argon. Protect against: moisture. Light.

### Further information on storage conditions

storage temperature:

of °C: -25

up to °C: -15

Protect against: Light.

Store under (Gas): argon. Nitrogen.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Additional advice on limit values

To date, no national critical limit values exist.

### 8.2. Exposure controls

#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe dust.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Tightly sealed safety glasses.

##### Hand protection

Single-use gloves. NBR (Nitrile rubber).

##### Skin protection

Lab apron. Chemical resistant safety shoes.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	solid
Colour:	whitish
Odour:	odourless

#### Changes in the physical state

Melting point/freezing point:	130 - 140 °C
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Water solubility:	easily soluble.
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## SECTION 10: Stability and reactivity

### 10.4. Conditions to avoid

Light.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Hydrochloric gas.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

## SECTION 12: Ecological information

### 12.5. Results of PBT and vPvB assessment

This substance does not meet the PBT/vPvB criteria of UK REACH.

**Safety Data Sheet**

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**CIDG**

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Page 4 of 4

**12.6. Endocrine disrupting properties**

This substance does not have endocrine disrupting properties with respect to non-target organisms.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of waste according to applicable legislation.

**Contaminated packaging**

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Other applicable information**

Not a hazardous material with respect to transportation regulations.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulatory information**

Water hazard class (D): 3 - highly hazardous to water

**SECTION 16: Other information****Relevant H and EUH statements (number and full text)**

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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