

## SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH)

Revision Date 07-Jan-2019

Version 1

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

**Product Name** 2-Deoxy-D-glucose  
**Product Code** 040-06481,046-06483  
**CAS No.** 154-17-6  
**Pure substance/mixture** Substance

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

**Recommended Use** For research purposes.  
**Uses advised against** No information available

**1.3. Details of the supplier of the safety data sheet****Manufacturer**

FUJIFILM Wako Pure Chemical Corporation  
1-2 Doshomachi 3-Chome  
Chuo-ku, Osaka 540-8605, Japan  
Phone: +81 (0)6-6203-3741  
Fax: +81 (0)6-6203-4640

**Supplier**

FUJIFILM Wako Chemicals GmbH  
Fuggerstrasse 12, D-41468 Neuss, Germany  
Phone: +49 (0)2131-311 158 Fax: +49 (0)2131-311 100  
FUJIFILM Wako Chemicals USA, Inc.  
1600 Bellwood Road, Richmond, VA 23237-1326, U.S.A.  
Phone: +1 (0)804-271-7677 Fax: +1 (0)804-271-7791

For further information, please contact us.

**1.4. Emergency telephone number**

As above or toxicological information center

**Emergency telephone** +81-6-6203-3741

**Announcement of company name change** Company name has changed since April 1, 2018. Former name was "Wako Pure Chemical Industries, Ltd."

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture**

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

This substance/mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [CLP].

**2.2. Label elements**

This product does not need to be labelled according to Regulation (EC) No. 1272/2008 [CLP]

**Pictograms**

**Signal word** none

**2.3. Other hazards**

**General Hazards** No information available

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

**3.1 Substances**

Chemical Name	EC No	CAS No.	Index No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Deoxy-D-glucose	205-823-0	154-17-6	N/A	=<100	Not classified

**3.3 Additional information**

Impurities and/or Additives : Not applicable

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

<b>Inhalation</b>	Remove to fresh air. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.
<b>Symptoms</b>	No information available.
<b>Note to physicians</b>	Treat symptomatically.

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

<b>Suitable Extinguishing media</b>	Water spray, carbon dioxide (CO <sub>2</sub> ), dry chemical, alcohol resistant foam.
<b>Unsuitable Extinguishing media</b>	No information available

**5.2. Special hazards arising from the substance or mixture** Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**5.3. Advice for firefighters**

<b>Special protective equipment for fire-fighters</b>	Wear self-contained breathing apparatus and protective suit. Use personal protective equipment as required.
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**5.4. Additional information** No information available

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

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.  
Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.  
See Section 12 for additional ecological information.

**6.3. Methods and material for**

Sweep up and gather scattered particles, and collect it in an empty airtight container.

**containment and cleaning up****Methods for cleaning up**

Take up mechanically, placing in appropriate containers for disposal.

**6.4. Reference to other sections**

See Section 12: Ecological Information, Section 13 : Disposal considerations

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Protective measures**

Ensure adequate ventilation, especially in confined areas. Avoid contact with strong oxidizing agents.

Handle in accordance with good industrial hygiene and safety practice.

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

Store away from sunlight in a cool (2-10 °C) well-ventilated dry place.

**Packaging materials**

Glass.

**7.3. Specific end use(s)****Risk Management Methods (RMM)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. 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.

**8.2. Exposure controls****Engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment****Eye/face protection**

Tight sealing safety goggles.

**Skin and body protection**

Suitable protective clothing.

**Respiratory protection**

Dust mask.

**Environmental exposure controls**

No information available.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****Appearance****Color**

White - slightly brown

**Appearance**

crystalline powder - powder

**Odor**

No data available

**pH****Melting point / melting range**

150 °C (dec.)

**Boiling point/boiling range**

No data available

**Flash point**

No data available

**Evaporation rate**

No data available

**Flammability (solid, gas)**

No data available

**Flammability Limits in Air****Upper**

No data available

**Lower**

No data available

**Vapor pressure**

No data available

**Vapor density**

No data available

**Specific Gravity / Density**

No data available

**Solubility(ies)**

water : soluble .

**Partition Coefficient**

No data available

**(n-octanol/water)****Autoignition temperature**

No data available

**Decomposition temperature**

No data available

**Kinematic viscosity**

No data available

**Dynamic viscosity**

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** No data available

### 10.2. Chemical stability

Stable under recommended storage conditions.

#### Explosion data

Sensitivity to Mechanical Impact none.

Sensitivity to Static Discharge none.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Extremes of temperature and direct sunlight.

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity** No information available

**Skin corrosion/irritation** No information available.

**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 exposure** No information available.

**Aspiration hazard** No information available.

**CMR Effects** No information available

## SECTION 12: Ecological information

**12.1. Toxicity** No information available

**12.2. Persistence and degradability** No information available.

**12.3. Bioaccumulative potential** No information available.

**12.4. Mobility in soil** No information available.

**12.5. Results of PBT and vPvB assessment** No information available

**12.6. Other adverse effects** No information available

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

**Method of disposing waste from residues / unused products** Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Precautionary including method of disposing contaminated packaging** Improper disposal or reuse of this container may be dangerous and illegal.

**SECTION 14: Transport information**

**IMDG** Not regulated

**14.1 UN/ID No** -

**14.2 Proper shipping name** Not regulated

**14.3 Hazard class** Not regulated

**14.4 Packing group** Not regulated

**14.5 Marine pollutant** Not applicable

**14.6 Special provisions** Not regulated

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** No information available

**IATA** Not regulated

**14.1 UN/ID No** -

**14.2 Proper shipping name** Not regulated

**14.3 Hazard class** Not regulated

**14.4 Packing group** Not regulated

**14.5 Marine pollutant** Not applicable

**14.6 Special provisions** Not regulated

**ADR/RID** Not regulated

**14.1 UN/ID No** -

**14.2 Proper shipping name** Not regulated

**14.3 Hazard class** Not regulated

**14.4 Packing group** Not regulated

**14.5 Marine pollutant** Not applicable

**14.6 Special provisions** Not regulated

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

**Water hazard class (WGK)** No information available

**European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

**International Inventories**

**All of the components in the product are on the following Inventory lists** TSCA (United States), Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Australia (AICS), South Korea (KECL), China (IECSC), ENCS (Japan), Philippines (PICCS), This product contains a substance not listed on international inventories.

**TSCA** Listed

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EINECS/ELINCS	Listed
DSL	-
NDSL	Listed
ENCS	-

**15.2. Chemical safety assessment**

No information available

**SECTION 16: Other information**

**Revision Date** 07-Jan-2019

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

No information available

**Disclaimer**

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Product information**

You might get a product which indicates a former company name, during the period of transition.

**This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006**

**End of Safety Data Sheet**