# **SAFETY DATA SHEET**



#### 1. Identification

Product identifier Glucagon™

Other means of identification

Item Code MS8009, VL0660, VL7519, VL7286, AM0668, UC9527, AM7220, MS8085, AM0666, MS8031,

VL7166, VL7220, MS8030, VL0666, MS8239, AM7078, VL7529

LY Number LY021411

Recommended use Pharmaceutical

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Eli Lilly and Company
Address Lilly Corporate Center
Indianapolis, IN 46285

United States

**Telephone** Phone: +1-317-276-2000

E-mail lilly\_sds@lilly.com

Emergency phone number CHEMTREC: +1-800-424-9300

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.
Signal word None.

**Hazard statement** The mixture does not meet the criteria for classification.

**Precautionary statement** 

Prevention Not available.

Response Not available.

Storage Not available.

Disposal Not available.

Hazard(s) not otherwise None known.

nazaru(s) not otnerwise

classified (HNOC)

none known.

Supplemental information Not applicable.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Glucagon		16941-32-5	2

Composition comments Remaining components of this product are non-hazardous and/or are present at concentrations

below reportable levels.

4. First-aid measures

**Inhalation** Remove to fresh air. If breathing stops, provide artificial respiration. Get medical attention

immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Immediately take off all

contaminated clothing. Get medical attention if irritation develops and persists. Wash

contaminated clothing before reuse.

**Eye contact** Immediately flush eye(s) with plenty of water. Get medical attention.

Material name: Glucagon™ sps us

**Ingestion** Consult a physician.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

# 5. Fire-fighting measures

Suitable extinguishing media

Carbon dioxide, dry chemical or water.

Unsuitable extinguishing

media

None known.

None known.

Specific hazards arising from

the chemical

Hazardous decomposition products formed under fire conditions.

Special protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear suitable protective clothing, gloves and eye/face protection. See Section 8 of the SDS for Personal Protective Equipment.

Methods and materials for containment and cleaning up

Do not sweep. Collect spill using a vacuum cleaner with a HEPA filter. If vacuum is not available,

lightly mist/wet material and remove by mopping or wet wiping.

Environmental precautions Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

See Section 8 of the SDS for Personal Protective Equipment. Keep container tightly closed in a dry and well-ventilated place.

# 8. Exposure controls/personal protection

### Occupational exposure limits

Lilly (LEG) Components	Туре	Value	
Glucagon (CAS 16941-32-5)	STEG (15min)	1600 ug/m3	
	TWA (12hrs)	160 ug/m3	
	TWA (8hrs)	160 ug/m3	

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Open handling is not recommended. Use appropriate control measures such as fume hood, ventilated enclosure, local exhaust ventilation, or down-draft booth.

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear goggles/face shield.

Skin protection

Hand protection Chemical-resistant gloves and impermeable body covering to minimize skin contact.

Other Not available.

Select respirator with appropriate protection factor. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the

respirator.

# 9. Physical and chemical properties

**Appearance** 

Physical state Solid.

Form Lyophilized cake

Color White
Odor Odorless

Material name: Glucagon™ sps us

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not applicable.

Evaporation rate Not available.

Flammability (solid, gas) No test data available.

Upper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

**Explosive properties** Not explosive.

Oxidizing properties The substance or mixture is not classified as oxidizing.

# 10. Stability and reactivity

**Reactivity** Not water reactive.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous Hazardous polymerization does not occur.

reactions

Conditions to avoid None known.

Incompatible materials Strong oxidizing substances.

Hazardous decomposition

products

Hazardous decomposition products formed under fire conditions.

## 11. Toxicological information

Information on toxicological effects

Acute toxicity Not expected to be active orally.

Components Species Test Results
Glucagon (CAS 16941-32-5)
Acute

Other

Mouse 300 mg/kg (Intravenous) (No mortality.)
Rat 300 mg/kg Subcutaneous (No mortality)
20 mg/kg Intravenous (No mortality)

Skin corrosion/irritation

Due to lack of data the classification is not possible.

Serious eye damage/eye

Due to lack of data the classification is not possible.

irritation

Respiratory or skin sensitization

**Respiratory sensitization**Due to lack of data the classification is not possible. **Skin sensitization**Due to lack of data the classification is not possible.

Material name: Glucagon™ sps us

5115 Version #: 06 Revision date: 10-19-2021 Issue date: 11-18-2014

Germ cell mutagenicity Negative in in vitro genetic toxicity assays. (Glucagon)

Due to inconclusive data the classification criteria are not met.

Carcinogenicity No carcinogenicity data available for this product.

Due to lack of data the classification is not possible.

#### IARC Monographs. Overall Evaluation of Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity In pregnant rats given animal sourced glucagon twice-daily by injection at doses up to 2 mg/kg

during the period of organogenesis, there was no evidence of increased malformations or embryofetal lethality. Studies in rats have shown that glucagon does not cause impaired fertility.

(Glucagon)

Based on available data, the classification criteria are not met.

Specific target organ toxicity single exposure

Due to lack of data the classification is not possible.

Specific target organ toxicity repeated exposure

Animal studies have reported the following effects: Change in heart rate or rhythm. Elevated blood

sugar levels. Liver effects. Kidney effects. Lung effects. (Glucagon) (subcutaneous)

Based on available data, the classification criteria are not met.

Not applicable. **Aspiration hazard** 

**Further information** The following hazards may be associated with accidental or therapeutic injection: Elevated blood

sugar levels.

## 12. Ecological information

**Ecotoxicity** Due to lack of data the classification is not possible.

No data is available on the degradability of this product. Persistence and degradability

No data available on bioaccumulation. Bioaccumulative potential

Not available. Mobility in soil Not available. Other adverse effects

### 13. Disposal considerations

Dispose in accordance with all applicable regulations. **Disposal instructions** 

#### 14. Transport information

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

**IMDG** 

Not regulated as dangerous goods.

Transport in bulk according to

Not available.

Annex II of MARPOL 73/78 and

the IBC Code

## 15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard

Communication Standard, 29 CFR 1910.1200.

Toxic Substances Control Act (TSCA)

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

Material name: Glucagon™ SDS US

### Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 313 (TRI reporting)

Not regulated.

#### Other federal regulations

#### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

#### **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

 Issue date
 11-18-2014

 Revision date
 10-19-2021

Version # 06

List of abbreviations ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road.

CEN: European Committee for Standardization.

DOT: Department of Transportation. HEPA: High Efficiency Particulate Air.

IARC: International Agency for Research on Cancer. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods.

LEG: Lilly Exposure Guideline.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NIOSH: National Institute for Occupational Safety & Health.

NTP: National Toxicology Program.

OSHA: Occupational Safety & Health Administration.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail. SCT: Secretariat of Communications and Transportation (NOM-002-SCT/2011).

STEG: Short Term Exposure Guideline.

TWA: Time Weighted Average.

**Disclaimer** As of the date of issuance, we are providing available information relevant to the handling of this

material in the workplace. All information contained herein is offered with the good faith belief that it is accurate. THIS SAFETY DATA SHEET SHALL NOT BE DEEMED TO CREATE ANY WARRANTY OF ANY KIND (INCLUDING WARRANTY OF MERCHANT ABILITY OR FITNESS FOR A PARTICULAR PURPOSE). In the event of an adverse incident associated with this material, this safety data sheet is not intended to be a substitute for consultation with appropriately

material, this safety data sheet is not intended to be a substitute for consultation with appropriate trained personnel. Nor is this safety data sheet intended to be a substitute for product literature

which may accompany the finished product.

For additional information contact:

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Revision information Product and Company Identification: Eli Lilly Info

Exposure controls/personal protection: Appropriate engineering controls

Material name: Glucagon™ sps us