Lilly

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

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_msds@lilly.com

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

number

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. Not available. Response Storage Not available. **Disposal** Not available. Hazard(s) not otherwise None known.

classified (HNOC)

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.

Material name: Glucagon™ SDS US 1/6 Eye contact Immediately flush eye(s) with plenty of water. Get medical attention.

Ingestion Consult a physician. **Most important**

symptoms/effects, acute and

delayed

None known.

5. Fire-fighting measures

Suitable extinguishing media Carbon dioxide, dry chemical or water.

Unsuitable extinguishing

media

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

Conditions for safe storage, including any

incompatibilities

8. Exposure controls/personal protection

Occupational exposure limits

Lilly (LEG)

Components	Туре	Value	
Glucagon (CAS 16941-32-5)	STEG (15min)	1400 ug/m3	
	TWA (12hrs) TWA (8hrs)	640 ug/m3 640 ug/m3	

Occupational exposure limits No exposure limits noted for ingredient(s).

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.

Respiratory protection Use an approved respirator. Select appropriate respirator for physical characteristics of material.

Select respirator with appropriate protection factor.

Thermal hazards Not available.

9. Physical and chemical properties

Appearance

Solid. Physical state

Form Lyophilized cake.

White Color Odor Odorless

Material name: Glucagon™ SDS US Odor threshold

PH

No data available.

boiling range

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) No test data available.

Upper/lower flammability or explosive limits

Flammability limit - lower No data available.

(%)

Flammability limit -

upper (%)

No data available.

Explosive limit - lower

(%)

No data available.

Explosive limit - upper

(%)

No data available.

Vapor pressureNo data available.Vapor densityNo data available.Relative densityNo data available.

Solubility(ies)

Solubility (water) Soluble.

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperatureNo data available.Decomposition temperatureNo data available.ViscosityNot applicable.

Other information

Density No data available. **Explosive properties** Not explosive

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

VOC (Weight %)Not applicable.

9.2. Other information

Minimum Ignition No data available.

Temperature

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.

Material name: Glucagon™ sps us

Components Species Test Results

Glucagon (CAS 16941-32-5)

Acute *Other*

Mouse 300 mg/kg Intravenous (No mortality. No

toxicity)

Rat 300 mg/kg Subcutaneous (No mortality)

20 mg/kg Intravenous (No mortality)

Skin corrosion/irritation Serious eye damage/eye irritation Due to lack of data the classification is not possible. Due to lack of data the classification is not possible.

Respiratory or skin sensitization

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

Due to lack of data the classification is not possible.

Megative in in vitro genetic toxicity assays. (Glucagon)

Due to inconclusive data the classification criteria are not met.

Carcinogenicity Not listed by IARC, NTP, ACGIH or OSHA.

No carcinogenicity data available for this product. Due to lack of data the classification is not possible.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity Growth suppression in delivered offspring at large pharmacological doses. (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.

Aspiration hazard Not applicable.

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

sugar levels.

12. Ecological information

Ecotoxicity Not available.

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

Bioaccumulative potential No data available on bioaccumulation.

Mobility in soilNot available.Other adverse effectsNot available.

13. Disposal considerations

Disposal instructions Dispose in accordance with all applicable regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to This substance/mixture is not intended to be transported in bulk.

Annex II of MARPOL 73/78

and the IBC Code

Material name: Glucagon™ sps us

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.

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 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No

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)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not listed.

US. Pennsylvania Worker and Community Right-to-Know Law

Not listed.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)*CanadaDomestic Substances List (DSL)No

Canada Non-Domestic Substances List (NDSL) No

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory No

*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

Version # 01

Lilly Lab Code Health: 0

Fire: 1 Reactivity: 0

Material name: Glucagon™ SDS US

List of abbreviations

Disclaimer

STEG: Short Term Exposure Guideline

TWA: Time Weighted Average

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 MATERIAL 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 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: Eli Lilly and Company Hazard Communication +1-317-651-9533

Material name: Glucagon™ sps us

5115 Version #: 01 Issue date: 11-18-2014