# SAFETY DATA SHEET

# 1. Identification

**Product identifier Humalog®** 

Other means of identification

**Item Code** VL7674, VL7672, HP8222, VL7737, HP7714, ZZ0090, HP7712, CT5585, ND1048, ND1026,

HP8794, VL7394, VL7515, VL7392, ND1025, VL7395, VL7393, HP8797, HP8799, HP8793, ND1037, HP8798, HP8194, HP8191, HP8791, HP8725, VL7391, VL7516, VL7513, VL7512, VL7511, VL7510, VL7514, VL7517, HP8193, HP8125, B01966, HP8801, ND1049, VL7533,

VL7396, VL7662, BL7394

Humalog \* Insulin (human), 28B-L-lysine-29B-L-proline- \* Lys(B28), Pro(B29) human insulin **Synonyms** 

LY Number LY275585 Recommended use Pharmaceutical **Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Eli Lilly and Company Company name Lilly Corporate Center **Address** 

Indianapolis, IN 46285

**United States** 

Telephone Phone: +1-317-276-2000

E-mail lilly\_sds@lilly.com

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

2. Hazard(s) identification

Physical hazards Not classified. Not classified. Health hazards **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 Not available. Storage Not available. **Disposal** Hazard(s) not otherwise

classified (HNOC)

None known.

Supplemental information

None.

# 3. Composition/information on ingredients

#### **Mixtures**

	Chemical name	Common name and synonyms	CAS number	%
_	Insulin, Lispro Crystals	Insulin (human), 28B-L-lysine-29B-L-proline-	133107-64-9	0.7

Lys(B28), Pro(B29) human insulin analog

Product contains ≤ 0.3% m-cresol and phenol. **Composition comments** 

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

below reportable levels.

Material name: Humalog® SDS US

5087 Version #: 12 Revision date: 11-18-2020 Issue date: 12-05-2014

#### 4. First-aid measures

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

immediately.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists. Take off

Use extinguishing media appropriate for surrounding fire.

contaminated clothing and wash before reuse.

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

Ingestion Consult a physician.

Most important

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special

treatment needed

None known.

None known.

5. Fire-fighting measures

Suitable extinguishing media

None known.

Unsuitable extinguishing

media

Specific hazards arising from

the chemical

None known.

Special protective equipment and precautions for firefighters Wear suitable protective equipment.

General fire hazards This product is an aqueous mixture which will not burn.

## 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Avoid inhalation of mists or aerosols.

Methods and materials for containment and cleaning up

Prevent runoff from entering drains, sewers, or streams. Use absorbent/adsorbent material to

solidify liquids. Clean up promptly by sweeping or vacuum.

Avoid release to the environment. **Environmental precautions** 

7. Handling and storage

Precautions for safe handling

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after handling. See Section 8

of the SDS for Personal Protective Equipment.

Conditions for safe storage, including any incompatibilities Keep refrigerated

## 8. Exposure controls/personal protection

#### Occupational exposure limits

Lilly (LEG) Components	Туре	Value	Form	
Insulin, Lispro Crystals (CAS 133107-64-9)	STEG (15min)	600 ug/m3	Respirable	
	TWA (12hrs)	120 ug/m3	Respirable	
iological limit values	No biological exposure limits noted for the ingredient(s).			
ppropriate engineering	Open handling is not recommended. Use appropriate control measures such as fume hood,			

ventilated enclosure, local exhaust ventilation, or down-draft booth. controls Individual protection measures, such as personal protective equipment

Eye/face protection Safety glasses with side shields recommended. If splash potential or dusty operations, wear

goggles/faceshield.

Skin protection

Hand protection Chemical resistant gloves.

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

If the applicable occupational exposure level (OEL) is anticipated to be exceeded, wear an Respiratory protection

approved respirator with sufficient protection factor to control exposure below the OEL.

Material name: Humalog® SDS US General hygiene considerations

Engineering controls should be used as the primary means to control workplace exposures. Follow good workplace hygiene practices such as washing hands after handling this material.

# 9. Physical and chemical properties

**Appearance** 

Physical state Liquid.

Form Aqueous Solution

Color Colorless
Odor Odorless

Odor threshold No data available.

**pH** 7 - 7.8

Melting point/freezing point No data available.

Initial boiling point and boiling > 212 °F (> 100 °C)

range

Flash point

Evaporation rate

Flammability (solid, gas)

No data available.

Not applicable.

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 pressure No data available.

Vapor density No data available.

Relative density No data available.

Solubility(ies)

Solubility (water) Soluble

Partition coefficient No data available.

(n-octanol/water)

Auto-ignition temperature

Decomposition temperature

Viscosity

No data available.

No data available.

No data available.

Other information

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

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

Percent volatile No data available.

Specific gravity 1.004 - 1.008

VOC No data available.

# 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 under normal conditions.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

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# 11. Toxicological information

Information on toxicological effects

Acute toxicity Not available.

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

irritation

Respiratory or skin sensitization

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

Skin sensitization Rhesus monkeys, extremely weak immunogenic potential. (Insulin, Lispro Crystals)

Due to inconclusive data the classification is not possible.

Germ cell mutagenicity Result in genetic toxicity assays (in vitro and in vivo): Negative (Insulin, Lispro Crystals)

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

One-year subcutaneous injection studies demonstrated no evidence of carcinogenicity in rats. Carcinogenicity

(Insulin, Lispro Crystals)

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

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed

Mixed results reported in animal studies. Effects were attributed to hypoglycemia. Insulin itself is Reproductive toxicity

> not considered a reproduction hazard. (Insulin, Lispro Crystals) 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: Decreased blood sugar levels. (subcutaneous)

(Insulin, Lispro Crystals)

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

No aspiration toxicity classification **Aspiration hazard** 

### 12. Ecological information

No data available. **Ecotoxicity** 

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

Bioaccumulative potential No data available for this product.

Mobility in soil No data available. Other adverse effects Not available.

# 13. Disposal considerations

**Disposal instructions** Dispose of contents/container in accordance with local/regional/national/international 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 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. One or more components are not listed on TSCA.

Toxic Substances Control Act (TSCA)

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## 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

#### 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.

#### International Inventories

Country(s) or regionInventory nameOn inventory (yes/no)\*CanadaDomestic Substances List (DSL)NoCanadaNon-Domestic Substances List (NDSL)NoUnited States & Puerto RicoToxic Substances Control Act (TSCA) InventoryNo

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

 Issue date
 12-05-2014

 Revision date
 11-18-2020

Version # 12

List of abbreviations ACGIH: American Conference of Governmental Industrial Hygienists.

DOT: Department of Transportation (49 CFR 172.101). IARC: International Agency for Research on Cancer. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG Code: International Maritime Dangerous Goods Code.

LEG: Lilly Exposure Guideline.

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

NIOSH: National Institute for Occupational Safety & Health. OSHA: Occupational Safety & Health Administration.

PBT: Persistent, bioaccumulative, toxic. STEG: Short Term Exposure Guideline. TWA: Time Weighted Average Value. vPvB: very Persistent, very Bioaccumulative.

**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 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

**Revision information** Product and Company Identification: Product Codes

Material name: Humalog® sps us

<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).