



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** LARTRUVO™

**Other means of identification**  
**Item Code** VL7190, CT2059, VL8926

**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

**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 classified (HNOC)** None known.

**Supplemental information** None.

## 3. Composition/information on ingredients

### Mixtures

Chemical name	Common name and synonyms	CAS number	%
Olaratumab		1024603-93-7	1

**Composition comments** Remaining components of this product are non-hazardous and/or are present at concentrations below reportable levels.

## 4. First-aid measures

**Inhalation** Call a physician if symptoms develop or persist.

**Skin contact** Rinse skin with water/shower. Get medical attention if irritation develops and persists.

**Eye contact** Rinse with water. Get medical attention if irritation develops and persists.

**Ingestion** Get medical attention if symptoms occur.

**Most important symptoms/effects, acute and delayed** This mixture contains a monoclonal antibody. Based on the biophysical properties and absorption characteristics of monoclonal antibodies, this substance/preparation is considered unlikely to produce health effects through relevant routes of occupational exposures.

## 5. Fire-fighting measures

<b>Suitable extinguishing media</b>	Use extinguishing media appropriate for surrounding fire.
<b>Unsuitable extinguishing media</b>	Not available.
<b>Specific hazards arising from the chemical</b>	Not applicable.
<b>Special protective equipment and precautions for firefighters</b>	Wear suitable protective equipment.
<b>General fire hazards</b>	This product is an aqueous mixture which will not burn.

## 6. Accidental release measures

<b>Personal precautions, protective equipment and emergency procedures</b>	Avoid inhalation of mists or aerosols.
<b>Methods and materials for containment and cleaning up</b>	Use absorbent/adsorbent material to solidify liquids. Clean up promptly by sweeping or vacuum. Wear appropriate protective equipment and clothing during clean-up.
<b>Environmental precautions</b>	Avoid release to the environment.

## 7. Handling and storage

<b>Precautions for safe handling</b>	Not available.
<b>Conditions for safe storage, including any incompatibilities</b>	Storage temperature: between 2C and 8C. Do not allow material to freeze.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### Lilly (LEG)

#### Components

	Type	Value
Olaratumab (CAS 1024603-93-7)	TWA (12hrs)	35 ug/m3
	TWA (8hrs)	50 ug/m3

<b>Biological limit values</b>	No biological exposure limits noted for the ingredient(s).
<b>Appropriate engineering controls</b>	Open handling is not recommended. Use appropriate control measure (i.e. fume hood, ventilated enclosure, local exhaust ventilation) to maintain airborne levels below occupational exposure level (OEL).
<b>Individual protection measures, such as personal protective equipment</b>	
<b>Eye/face protection</b>	Safety glasses with side shields recommended. If splash potential or dusty operations, wear goggles/faceshield.
<b>Skin protection</b>	
<b>Hand protection</b>	Chemical resistant gloves.
<b>Other</b>	While monoclonal antibodies are not anticipated to be readily absorbed through the skin, wear impervious gloves and body covering (i.e. lab coat) to minimize skin contact.
<b>Respiratory protection</b>	If the applicable occupational exposure level (OEL) is anticipated to be exceeded, wear an approved respirator with sufficient protection factor to control exposure below the OEL.
<b>Thermal hazards</b>	Not available.
<b>General hygiene considerations</b>	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.

This mixture contains a monoclonal antibody. Based on the biophysical properties and absorption characteristics of monoclonal antibodies, oral and dermal routes of exposure are not considered occupationally relevant and potential bioavailability through inhalation is minimal.

## 9. Physical and chemical properties

<b>Appearance</b>	Clear to slightly opalescent liquid.
<b>Physical state</b>	Liquid.
<b>Form</b>	Not available.
<b>Color</b>	Colorless to Light yellow
<b>Odor</b>	Not available.

<b>Odor threshold</b>	Not available.
<b>pH</b>	5.3 - 5.7
<b>Melting point/freezing point</b>	Not available.
<b>Initial boiling point and boiling range</b>	Not available.
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.
<b>Upper/lower flammability or explosive limits</b>	
<b>Flammability limit - lower (%)</b>	Not available.
<b>Flammability limit - upper (%)</b>	Not available.
<b>Explosive limit - lower (%)</b>	Not available.
<b>Explosive limit - upper (%)</b>	Not available.
<b>Vapor pressure</b>	Not available.
<b>Vapor density</b>	Not available.
<b>Relative density</b>	Not available.
<b>Solubility(ies)</b>	
<b>Solubility (water)</b>	Soluble
<b>Partition coefficient (n-octanol/water)</b>	Not available.
<b>Auto-ignition temperature</b>	Not available.
<b>Decomposition temperature</b>	Not available.
<b>Viscosity</b>	Not available.
<b>Other information</b>	
<b>Explosive properties</b>	Not explosive
<b>Oxidizing properties</b>	The substance or mixture is not classified as oxidizing.

## 10. Stability and reactivity

<b>Reactivity</b>	Not water reactive.
<b>Chemical stability</b>	Material is stable under normal conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	None under normal conditions.
<b>Incompatible materials</b>	Strong oxidizing agents.
<b>Hazardous decomposition products</b>	No hazardous decomposition products are known.

## 11. Toxicological information

### Information on toxicological effects

<b>Acute toxicity</b>	Based on available data, the classification criteria are not met.
<b>Skin corrosion/irritation</b>	Based on available data, the classification criteria are not met.
<b>Serious eye damage/eye irritation</b>	Based on available data, the classification criteria are not met.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Due to lack of data the classification is not possible.
<b>Skin sensitization</b>	Due to lack of data the classification is not possible.
<b>Germ cell mutagenicity</b>	This substance is a monoclonal antibody. It does not possess mutagenic potential. Mutagenicity testing has not been conducted. Based on available data, the classification criteria are not met.
<b>Carcinogenicity</b>	Not listed by IARC, NTP, ACGIH or OSHA. Due to lack of data the classification is not possible.

## **IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.

## **OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not regulated.

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

Not listed.

<b>Reproductive toxicity</b>	Studies of PDGFs and PDGFRs in animal development have indicated that disruption of PDGFR alpha signaling may impair gastrulation and the development of the cardiac and cranial neural crest, gonads, lung, intestine, skin, central nervous system, and skeleton. Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - single exposure</b>	Based on available data, the classification criteria are not met.
<b>Specific target organ toxicity - repeated exposure</b>	No adverse effects reported in animals administered 75 mg/kg intravenously weekly for 39 weeks. Based on available data, the classification criteria are not met.
<b>Aspiration hazard</b>	Not applicable.
<b>Further information</b>	This mixture contains a monoclonal antibody. Based on the biophysical properties and absorption characteristics of monoclonal antibodies, oral and dermal routes of exposure are not considered occupationally relevant and potential bioavailability through inhalation is minimal.

## **12. Ecological information**

<b>Ecotoxicity</b>	Not expected to be harmful to aquatic organisms.
<b>Persistence and degradability</b>	Not available.
<b>Bioaccumulative potential</b>	Not available.
<b>Mobility in soil</b>	Not available.
<b>Other adverse effects</b>	Not available.

## **13. Disposal considerations**

<b>Disposal methods/information</b>	Dispose in accordance with all applicable regulations.
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## **14. Transport information**

### **DOT**

Not regulated as dangerous goods.

### **IATA**

Not regulated as dangerous goods.

### **IMDG**

Not regulated as dangerous goods.

<b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	Not available.
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## **15. Regulatory information**

<b>US federal regulations</b>	This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
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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 1910.1001-1050)**

Not regulated.

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

<b>Hazard categories</b>	Immediate Hazard - No Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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**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 (SDWA)** Not regulated.**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

\*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** 11-03-2016**Revision date** 04-12-2017**Version #** 02**Lilly Lab Code** Health: 0  
Fire: 0  
Reactivity: 0**List of abbreviations** LEG: Lilly Exposure Guideline  
TWA: Time Weighted Average**Disclaimer** This document provides available information relevant to the handling of the experimental material identified above. Some of the information contained herein is preliminary, and some sections may contain opinions based on available scientific information. All of the information is offered with the good faith belief that it is accurate, but this safety data sheet does not constitute a warranty of any kind, express or implied. This document has been made available so that proper protective measures can be taken by persons who may be exposed to the material during pre-market research and development activities. In the event of any adverse incident associated with this material, the safety data sheet is not intended to be a substitute for consultation with appropriately trained personnel.For additional information contact:  
Eli Lilly and Company  
Hazard Communication  
+1-317-651-9533**Revision information** Toxicological information: Acute toxicity  
Toxicological information: Corrosivity  
Toxicological information: Eye contact  
Toxicological information: Mutagenicity  
Toxicological information: Reproductivity  
Toxicological information: Specific target organ toxicity - single exposure  
Other information, including date of preparation or last revision: List of abbreviations