## Aliqopa

Version 1.0

122000014941 Revision Date 07/11/2017 Print Date 09/15/2017

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product information** 

Product Name: Aliqopa

**Synonyms:** Copanlisib lyophilisate

**SDS Number:** 122000014941

Use : Medicinal products

Company

Bayer HealthCare, LLC Pharmaceuticals 100 Bayer Boulevard PO Box 915 Whippany, NJ 07981-0915 UNITED STATES OF AMERICA 1888-84-BAYER

In case of emergency: 1888-84-BAYER

Chemtrec: (800) 424-9300

## 2. HAZARDS IDENTIFICATION

## Classification of the substance or mixture

## Classification according to national GHS implementation:

Reproductive toxicity, Category 1B (H360FD)

Specific target organ toxicity - repeated exposure, Category 1 (H372)

## Label elements

## Labelling according to national GHS implementation:



## Danger

## **Hazard statements:**

H360FD May damage fertility. May damage the unborn child. H372 Causes damage to organs through prolonged or repeated exposure.

## **Precautionary statements:**

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.



Version 1.0 Revision Date 07/11/2017



## Hazardous components which must be listed on the label:

**Components:** CAS-No.
Copanlisib Dihydrochloride / 1402152-13-9

BAY 84-1236

#### Other hazards

Other hazards which do not result in classification: None known.

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is a mixture.

## **Hazardous components**

## Copanlisib Dihydrochloride / BAY 84-1236

Concentration [Weight percent] 35.46

CAS-No.: 1402152-13-9

CAS name: 5-Pyrimidinecarboxamide, 2-amino-N-[2,3-dihydro-7-methoxy-8-[3-(4-morpholinyl)propoxy]imidazo[1,2-c]quinazolin-5-yl]-, hydrochloride (1:2)

## **GHS Classification:**



Repr. 1B H360FD STOT RE 1 H372

## Citric acid

Concentration [Weight percent] 2.97

CAS-No.: 77-92-9

CAS name: 1,2,3-Propanetricarboxylic acid, 2-hydroxy-

## **GHS Classification:**



Eye Irrit. 2A H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

## Description of first aid measures

**General advice:** No hazards which require special first aid measures.

**If inhaled:** Not an expected entry route.

**In case of skin contact:** After contact with skin, wash immediately with plenty of soap and water. If skin reactions occur, contact a physician.

**In case of eye contact:** In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed: In case of accidental ingestion, contact your regional poison center or physician

## Aliqopa

Version 1.0 Revision Date 07/11/2017



immediately.

Most important acute symptoms/effects

Indication of any immediate medical attention and special treatment needed

## 5. FIREFIGHTING MEASURES

**Extinguishing media** 

Suitable extinguishing media: Any

Special hazards arising from the substance or mixture

**Specific hazards during firefighting:** Fire may cause evolution of: Carbon monoxide (CO) Carbon dioxide (CO2)

**Further information:** Prevent fire extinguishing water from contaminating surface water or the ground water system.

Advice for firefighters

**Special protective equipment for firefighters:** In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment.

**Environmental precautions** 

Methods and materials for containment and cleaning up

**Methods for cleaning up:** Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

Reference to other sections

Additional advice: Avoid dust formation.

## 7. HANDLING AND STORAGE

#### Precautions for safe handling

#### Handling:

Industrial uses Avoid dust formation. Only handle product with local exhaust ventilation. Avoid contact with skin, eyes and clothing.

No special protective measures against fire required.

Conditions for safe storage, including any incompatibilities

Specific end use(s)

## Aliqopa

122000014941 Version 1.0 Revision Date 07/11/2017 Print Date 09/15/2017

No statements available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## Components with workplace control parameters

Contains no substances with occupational exposure limit values.

## Hazardous components without workplace control parameters

Components	CAS-No.
Copanlisib Dihydrochloride /	1402152-13-
BAY 84-1236	9
Citric acid	77-92-9

Personal protective equipment

Respiratory protection Recommended Filter type:

**HEPA** 

None required for consumer use of this product.

Hand protection

Material Chemically resistant gloves.

None required for consumer use of this product. Remarks

Eye protection Safety glasses

None required for consumer use of this product.

Protective measures No special safety precautions are required during handling of

> pharmaceuticals in their intended finished form (tablets or liquid formulations) by chemists, the hospital's medical staff

or patients.

Wear suitable protective equipment.

For the intake of ready for use pharmaceutials or the external use on the skin please read the label and the package leaflet.

Please consult label for end-user requirements.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

Form: solid

Colour: No statements available. Odour: No statements available. Melting point/range: No statements available. Boiling point/boiling range: No statements available. No statements available. Density: Bulk density: No statements available. No statements available. Vapour pressure:



## Aliqopa

 Version 1.0
 Revision Date 07/11/2017
 Print Date 09/15/2017

Viscosity, dynamic: No statements available. Viscosity, kinematic: No statements available. Flow time: No statements available. Surface tension: No statements available. Water solubility: No statements available. Solubility(ies): No statements available. pH: No statements available. Corrosive to metal: No statements available.

Partition coefficient Citric acid experimental

(n-octanol/water): log Pow: -1.61 Flash point: Not applicable

Inflammability (solid, gaseous): No statements available. Explosion limits: No statements available.

Other information

Miscibility with water: Not applicable

#### 10. STABILITY AND REACTIVITY

## Reactivity

No statements available.

## Reactions with water / air:

No statements available.

## Ignition temperature:

No statements available.

#### **Burning number:**

No statements available.

## **Chemical stability**

No statements available.

## Thermal decomposition:

No data available

## **Dust explosion characteristic number:**

No statements available.

## **Dust explosion class:**

No data available

## Impact sensitivity:

No data available

#### Hazardous reactions:

No data available

## **Explosive properties:**

No statements available.

# Aliqopa



Print Date 09/15/2017

Possibility of hazardous reactions

deflagration ability:

Version 1.0

No statements available.

Smoldering combustion:

No statements available.

Conditions to avoid

No data available

Minimum ignition energy:

No data available

Oxidizing properties:

No statements available.

Incompatible materials

Materials to avoid:

Oxidizing agents

**Hazardous decomposition products** 

Carbon monoxide (CO), Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

Acute toxicity

**Product:** 

Acute oral toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg

Method: Calculation method

Revision Date 07/11/2017

Acute dermal toxicity : Acute toxicity estimate (ATE): > 5,000 mg/kg

Method: Calculation method

**Components:** 

Copanlisib Dihydrochloride / BAY 84-1236:

Acute toxicity (other routes of : 30 mg/kg

administration) Application Route: intravenous

Method: expert opinion

Test substance: argument by analogy

Remarks: Single administration did lead to fatalities.

Citric acid:

Acute oral toxicity : LD50 (Rat): 3,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

Method: OECD 402

GLP: yes

## Aliqopa

Version 1.0 Revision Date 07/11/2017



## Skin corrosion/irritation

## **Components:**

## Citric acid:

Species: Rabbit Exposure time: 72 h Method: OECD 404 Result: Mild skin irritation

## Serious eye damage/eye irritation

## **Components:**

## Citric acid:

Species: Rabbit Result: Eye irritation Exposure time: 72 h

Assessment: Causes serious eye irritation.

Method: OECD 405

## Respiratory or skin sensitisation

## Components:

## Citric acid:

Assessment: Causes serious eye irritation., May be harmful if swallowed., May

be harmful in contact with skin.

## Germ cell mutagenicity

## **Components:**

## Copanlisib Dihydrochloride / BAY 84-1236:

Genotoxicity in vitro : Test Type: Mouse lymphoma assay

Method: expert opinion

Result: No indication of clastogenic effects. Test substance: argument by analogy

Test Type: Micronucleus test

Method: expert opinion

Result: No evidence of a genotoxic effect. Test substance: argument by analogy

Genotoxicity in vivo : Test Type: Micronucleus test

Species: Mouse

Method: expert opinion

Result: No evidence of a genotoxic effect. Test substance: argument by analogy

Citric acid:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

## Aliqopa

Version 1.0 Revision Date 07/11/2017



Print Date 09/15/2017

Carcinogenicity

**IARC** No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

**OSHA** No component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

## Reproductive toxicity

## Components:

## Copanlisib Dihydrochloride / BAY 84-1236:

Reproductive toxicity -

Assessment

: Clear evidence of adverse effects on development, based on animal experiments., Clear evidence of adverse effects on sexual function and fertility, based on animal experiments.

## STOT - repeated exposure

## **Components:**

## Copanlisib Dihydrochloride / BAY 84-1236:

Assessment: Causes damage to organs through prolonged or repeated exposure.

## Repeated dose toxicity

## Components:

## Copanlisib Dihydrochloride / BAY 84-1236:

Species: Rat

NOAEL: < 0.6 mg/kg

Application Route: intravenous

Exposure time: 21 days

Number of exposures: Once weekly

Method: expert opinion

Test substance: argument by analogy

Target Organs: Kidney, Liver, Haematopoietic system, Bone, Teeth

Species: Dog

NOAEL: < 0.2 mg/kg

Application Route: intravenous

Exposure time: 21 days

Number of exposures: Once weekly Test substance: argument by analogy

Target Organs: Gastro-intestinal system, Blood pressure, Glucose Metabolism

## Aliqopa

Version 1.0 Revision Date 07/11/2017

122000014941 Print Date 09/15/2017

Citric acid:

Repeated dose toxicity -

Assessment

: Causes serious eye irritation., May be harmful if swallowed.,

May be harmful in contact with skin.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity** 

Components:

Citric acid:

Toxicity to bacteria : EC0 (Bacteria): 10,000 mg/l

Method: DIN 38412

**Ecotoxicology Assessment** 

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Persistence and degradability

**Components:** 

Copanlisib Dihydrochloride / BAY 84-1236:

Stability in water : Test Type: Hydrolysis

Degradation half life: > 365 d pH: 4

Method: Directive 67/548/EEC, Annex V, C.7

Degradation half life: 121 d pH: 7

Method: Directive 67/548/EEC, Annex V, C.7

Degradation half life: 85 d pH: 9

Method: Directive 67/548/EEC, Annex V, C.7

Citric acid:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 98 % Exposure time: 2 d Method: OECD 302B

Biochemical Oxygen

Demand (BOD)

: 575 - 675 mg/g

Chemical Oxygen Demand

(COD)

: 700 - 800 mg/g

Bioaccumulative potential

**Components:** 

Citric acid:

Bioaccumulation : Remarks: Does not bioaccumulate.

## Aliqopa

Version 1.0 Revision Date 07/11/2017

122000014941 Print Date 09/15/2017

Partition coefficient: n-

octanol/water

: log Pow: -1.61

Method: experimental

Mobility in soil

No data available

Other adverse effects

**Product:** 

Results of PBT and vPvB

assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

Additional ecological

information

: Do not allow to enter surface waters or groundwater.

## 13. DISPOSAL CONSIDERATIONS

## **Disposal methods**

Waste from residues : If discarded in its purchased form, this product would not be a

hazardous waste either by listing or by characteristic.

However, under RCRA, it is the responsibility of the product user to determine at the time of disposal, whether a material containing the product or derived from the product should be classified as a hazardous waste. (40 CFR 261.20-24)

## 14. TRANSPORT INFORMATION

US Land transport (CFR)

non-regulated

Sea transport (IMDG)

non-regulated

Air transport (IATA)

non-regulated

## Aliqopa

Version 1.0 Revision Date 07/11/2017



## 15. REGULATORY INFORMATION

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

## SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Chronic Health Hazard

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**US State Regulations** 

**Massachusetts Right To Know** 

No components are subject to the Massachusetts Right to

Know Act.

**New York City Hazardous Substances** 

No components listed on the New York City Hazardous

Substances List

California Prop. 65 This product does not contain any chemicals known to State

of California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

TSCA Not On TSCA Inventory

Copanlisib Dihydrochloride / BAY 84-1236

**TSCA list** 

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

## **16. OTHER INFORMATION**

## Full text of H-Statements mentioned in chapters 2 and 3

H319 Causes serious eye irritation.

H360FD May damage fertility. May damage the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

#### **Further information**



## **Aliqopa**

Version 1.0 Revision Date 07/11/2017

122000014941 Print Date 09/15/2017

The information provided in this 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.