



Revision Number: 4

KANJINTI™

Safety Data Sheet

Date Issued 13-Jun-2019

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

1.1 Product identifier

Product Name: KANJINTI™
Common Name: Trastuzumab
Chemical Name: anti-HER2 monoclonal antibody
Synonyms: ABP 980

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use: Pharmaceutical
Uses advised against: No information available

Manufacturer: Amgen Inc.
One Amgen Center Drive
Thousand Oaks, California 91320-1799
1-805-447-7233
1-805-447-1000

Emergency Telephone Number: Chemtrec
NORTH AMERICA 1-800-424-9300,
INTERNATIONAL 1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Pharmaceutical product intended for clinical and commercial manufacturing purposes only. Product contains trastuzumab, an active pharmaceutical ingredient for treatment of breast or gastric cancers. Dosage contents may pose a health hazard only if significant absorption occurs (e.g. inhalation after a major spill or leak). Avoid inhalation, skin contact, eye contact, and accidental ingestions. Does not meet GHS classification criteria and therefore is not classified.

2.1 - Classification of the drug substance or mixture (drug product in final form, not applicable) REGULATION (EC) No 1272/2008

Not classified

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R phrases mentioned in this Section, see Section 16

2.2 Label elements

Not classified

2.3 Other Hazards

No information available



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Ingredients: See below

Chemical Name: anti-HER2 monoclonal antibody

CAS-No: 1446410-98-5

Drug product presentations includes 60, 150, and 420 mg of trastuzumab per single-use vials or 420 mg of trastuzumab per multi-dose vials in a formulation that when properly re-constituted contains:

	CAS Number:	Amount
L-Histidine	71-00-1	4.2 mM
Polysorbate 20	9005-64-5	0.008% (w/v)
α, α -trehalose	6138-23-4	51 mM

4. FIRST AID MEASURES

4.1 Description of first-aid measures

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

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Consult a physician if necessary.

Inhalation: Move to fresh air. If symptoms persist, call a physician.

Ingestion: If symptoms persist, call a physician. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

Notes to Physician: Treat symptomatically.



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Flammable Properties: No information available.

Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Hazardous Combustion Products: No information available.

5.3 Advice for firefighters

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Spill Procedures: If material is released or spilled, cordon off spill area. Take proper precautions to minimize exposure by using appropriate personal protective equipment in cleaning up a spill. If in powder form, wet down spilled material to minimize airborne dispersion. Soak up material with absorbent e.g., paper towels, and wash spill area thoroughly with appropriate cleaning materials. Dispose of collected material in accordance with applicable waste disposal regulations. Avoid release to the environment.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Handling and Storage: Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke in work areas. Use adequate ventilation to minimize exposure. Wash hands, face and other potentially exposed areas immediately after handling this material. Remove contaminated clothing prior to entering eating areas. Clean protective equipment thoroughly after each use. Store in a well ventilated area.



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limit: No exposure guidelines established by ACGIH, NIOSH or OSHA. Amgen recommends an occupational exposure limit (OEL) of 100 µg/m³ as an 8-hour time weighted average over a 40-hour work week. The OEL is designed as an acceptable airborne concentration of a substance for which it is believed that workers may be repeatedly exposed day after day without adverse health effects. Trastuzumab has been classified per Amgen's Hazard Classification System as an Occupational Exposure Band 3 compound (20 µg/m³ - 100 µg/m³).

Engineering Controls: Handle material in enclosed processes or in processes with effective local exhaust ventilation or within a chemical hood. The choice of engineering controls should be dependent on the job activity, task, quantities handled, and physical state of material.

8.2 Exposure controls

Personal Protective Equipment

Eye/face Protection: Wear safety glasses with side shields, chemical splash goggles, or safety glasses with side shields and a full-face shield to prevent contact with eyes. The choice of protection should be based on the job activity and potential for exposure to the eyes and face.

Skin Protection: Use gloves or other appropriate personal protective equipment if skin contact with formulation is possible. Wear lab coat or other protective over garment if splashing is possible. The choice of protection should be based on the job activity and potential for skin contact.

Respiratory Protection: No respiratory protective equipment normally required. The choice of protection should be based on the job activity.

Other: Wash hands, face and other potentially exposed areas after handling material (especially before eating, drinking or smoking). Clean protective equipment thoroughly after each use.

8.3 Environmental exposure controls

Environmental Exposure Controls Avoid release to the environment.



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White to slightly yellow
Physical State:	Lyophilized powder
Molecular Weight:	Approximately 145 kD
Odor:	Not applicable
Odor Threshold:	Not applicable
pH:	6.1
Melting Point:	Not applicable
Flash Point:	Not applicable
Evaporation Rate:	Not applicable
Lower explosive limit:	Not applicable
Upper explosive limit:	Not applicable
Vapor Pressure:	Not applicable
Vapor Density (air = 1):	Not applicable
Relative density:	Not applicable
Water Solubility:	Not applicable
Partition Coefficient (log Kow):	Not applicable
Viscosity:	Not applicable

10. STABILITY AND REACTIVITY

10.1 Reactivity	Not applicable
10.2 Chemical stability	Not applicable
10.3 Possibility of hazardous reactions	Not applicable
10.4 Conditions to avoid	None
10.5 Incompatible materials	None
10.6 Hazardous decomposition products	None
10.7 Other information	None

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute Toxicity:	Based on available data, the GHS classification criteria are not met.
Skin corrosion/irritation:	Does not meet GHS Classification Criteria and therefore is not classified.
Serious eye damage/eye irritation:	Does not meet GHS Classification Criteria and therefore is not classified.
Respiratory or skin sensitization:	Does not meet GHS Classification Criteria and therefore is not classified.
Germ cell mutagenicity:	Does not meet GHS Classification Criteria and therefore is not classified.
Carcinogenicity:	Per ICH S6, no carcinogenicity tests were performed.
Reproductive toxicity:	Does not meet GHS Classification Criteria and therefore is not classified.
STOT - single exposure:	Does not meet GHS Classification Criteria and therefore is not classified.
STOT - repeated exposure:	Does not meet GHS Classification Criteria and therefore is not classified.
Aspiration Hazard:	No information available



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Ecotoxicity effects: No information available

12.2 Persistence and degradability

Persistence/Degradability: No information available

12.3 Bioaccumulative potential

Bioaccumulation/ Accumulation: No information available

12.4 Mobility in soil

Mobility in Environmental Media: No information available

12.5 Results of PBT and vPvB assessment

Results of PBT and vPvB assessment: No information available

12.6 Other adverse effects

Other Adverse Effects: No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste Disposal Method: Dispose of waste according to prescribed federal, state, local and competent authority guidelines.

14. TRANSPORT INFORMATION

DOT: Not regulated by U.S. DOT, IATA, or IMDG.



KANJINTI™

Safety Data Sheet

Revision Number: 4

Date Issued 13-Jun-2019

15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

International Inventories

TSCA:	-
EINECS/ELINCS	-
DSL/NDSL	-
PICCS:	-
ENCS:	-
CHINA:	-
AICS:	-
KECL:	-

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

PICCS - Philippines Inventory of Chemicals and Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

AICS - Australian Inventory of Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

State Regulations

California Proposition 65: This product does not contain any Proposition 65 chemicals.

15.2 Chemical safety assessment

No CSA has been conducted.

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2

No information available

Revision Number: 4

To the best of our knowledge, the information provided here is accurate as of the date of the Safety Data Sheet (SDS). The information is specific to the material that is the subject of this SDS and may not be valid when this material is used in combination with any other materials or in any process. Each user should review the information provided here in the context of the user's intended manner of handling, using, processing, storing, transporting, and disposing of the material. This information is provided without warranty or guarantee of any kind, whether express, implied or statutory, including without limitation warranty of fitness or merchantability for a particular purpose or noninfringement. No representation, warranty, or guarantee is made, and no liability is assumed, with respect to the material or the information contained in this SDS including without limitation its accuracy or completeness or the hazards of, or results obtained from, use of the material or the information contained here. Caution should be used in the handling, using, processing, storing, transporting, and disposing of the material