

Safety Data Sheet

# AVASTIN(R) Vials (100 mg)

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Product name AVASTIN(R) Vials (100 mg)

Product code SAP-10086726

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

Use - formulated pharmaceutical active substance (antineoplastic)

### 1.3. Details of the supplier of the safety data sheet

Company information	Enquiries: Genentech, Inc. 1 DNA Way South San Francisco USA-CA 94080 United States of America	Local representation:
	Phone 001-(650) 225-1000	
	E-Mail info.sds@roche.com	
	US Chemtrec phone: (800)-424-9300	

### 1.4. Emergency telephone number

Emergency telephone number US Chemtrec phone: (800)-424-9300

## SECTION 2: Hazards identification

### Classification of the substance or mixture / Label elements

GHS Classification no classification and labelling according to GHS

### Other hazards

Note - no information available

## SECTION 3: Composition/information on ingredients

Characterization bevacizumab and other inactive ingredients

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Ingredients	Concentration	GHS-Classification (pure ingredient)
Bevacizumab 216974-75-3	~ 2 %	
<b>SECTION 4: First aid measures</b>		
<b>4.1. Description of first aid measures</b>		
Eye contact	- rinse immediately with tap water for at least 20 minutes - open eyelids forcibly	
Skin contact	- remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents	
Inhalation	- remove the casualty to fresh air and keep him/her calm - in the event of symptoms get medical treatment	
<b>4.2. Most important symptoms and effects, both acute and delayed</b>		
Note	- no information available	
<b>4.3. Indication of any immediate medical attention and special treatment needed</b>		
Note to physician	- treat symptomatically	
<b>SECTION 5: Firefighting measures</b>		
<b>5.1. Extinguishing media</b>		
Suitable extinguishing media	- water spray jet, dry powder, foam, carbon dioxide - adapt extinguishing media to surrounding fire conditions	
Flash point (liquid)	not applicable	
<b>5.2. Special hazards arising from the substance or mixture</b>		
Specific hazards	- no particular hazards known	
<b>5.3. Advice for firefighters</b>		
Protection of fire-fighters	- precipitate gases/vapours/mists with water spray	
<b>SECTION 6: Accidental release measures</b>		
<b>6.1. Personal precautions, protective equipment and emergency procedures</b>		
Personal precautions	- no special precautions required	

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### 6.2. Environmental precautions

Environmental protection - no special environmental precautions required

### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up - collect spilled solutions with inert adsorbent and hand over to waste removal

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Suitable materials - aluminium, glass, enamel, stainless steel

Note - do not shake solution

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions - 2 - 8 °C  
- do not freeze  
- protected from light

Validity - 2 to 8 °C, in the unopened original container, see "best use before" date stated on the label

Packaging materials - vials

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Threshold value (Roche) air - IOEL (Internal Occupational Exposure Limit): 0.05 mg/m<sup>3</sup> \*1

### 8.2. Exposure controls

Respiratory protection - Respiratory protection is recommended as a precaution to minimize exposure. Effective engineering controls are considered to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls.  
- respiratory protection not necessary during normal operations

Hand protection - protective gloves (eg made of neoprene, nitrile or butyl rubber)

Eye protection - safety glasses

\*1 referring to: Bevacizumab

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Color	clear to slightly opalescent colourless to pale brown
Form	aqueous solution sterile liquid
Density	1.031 g/ml
pH value	5.9 to 6.3
Boiling temperature	~ 100 °C

### 9.2. Other information

Note - no information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Note - no information available

### 10.2. Chemical stability

Stability - does not contain any antimicrobial preservative; therefore, care must be taken to ensure the sterility of the prepared solution

### 10.3. Possibility of hazardous reactions

Note - no information available

### 10.4. Conditions to avoid

Note - no information available

### 10.5. Incompatible materials

Note - no information available

### 10.6. Hazardous decomposition products

Note - no information available

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity	- not bioavailable by oral administration	*1
	- NOEL 50 mg/kg (i.v., cynomolgus monkey)	*1
Chronic toxicity	- LOAEL 2 mg/kg/w (i.v., cynomolgus monkey; 26 weeks)	*1
Local effects	- no information available	
Sensitization	- no information available	
Mutagenicity	- no information available	
Carcinogenicity	- no information available	
Reproductive toxicity	- teratogenic and embryotoxic (i.v., rabbit)	*1
	- critical exposure in human after parenteral administration only	*1
	- parenteral administration to pregnant women can cause fetal harm	*1
STOT-single exposure	- no information available	
STOT-repeated exposure	- no information available	
Aspiration hazard	- no information available	
Note	- humanized monoclonal antibody which binds to and inactivates the vascular endothelial growth factor (VEGF)	*1
	- therapeutic dose: 5 mg/kg/2w	*1
	- elimination half-life: 20 d	*1
	- side effect(s) during therapy: tendency to bleeding, thrombophlebitis, proteinuria	*1
Potential Health Effects	- Exposure: Inhalation, Ingestion, Skin contact, Eye contact	
	- Carcinogenicity: not listed by NTP, IARC or OSHA	
Additional Health Information	- Conditions aggravated: Hypersensitivity to this material and other materials in its chemical class.	
*1 referring to:	Bevacizumab	

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecotoxicity	- no adverse influence on substrate biodegradation (activated sludge) concentration (14 d) 100 mg active substance/ (Manometric Respirometry Test, OECD No. 301 F)
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- barely toxic for algae (nominal concentration = 100 mg/l), growth inhibition possibly due to turbidity caused by test substance (Scenedesmus (=Desmodesmus) subspicatus)  
ErC<sub>50</sub> (72 h) > 100 mg active substance/l  
EbC<sub>50</sub> (72 h) ~ 100 mg active substance/l  
NOEC (72 h) < 100 mg active substance/l  
(OECD No. 201)
- barely toxic for planktonic crustaceans (nominal concentration = 100 mg/l) (Daphnia magna)  
EC<sub>50</sub> (48 h) > 100 mg active substance/l  
NOEC (48 h) 100 mg active substance/l  
(OECD No. 202)

### 12.2. Persistence and degradability

- Ready biodegradability
- readily biodegradable  
78 % BOD/ThOD, 28 d  
96 % DOC, 28 d  
(Manometric Respirometry Test, OECD No. 301 F)

### 12.3. Bioaccumulative potential

- Note
- no information available

### 12.4. Mobility in soil

- Note
- no information available

### 12.5. Results of PBT and vPvB assessment

- Note
- no information available

### 12.6. Other adverse effects

- Note
- no information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Waste from residues
- observe local/national regulations regarding waste disposal

## SECTION 14: Transport information

- Note
- not classified as Dangerous Good according to the Dangerous Goods Regulations, proper shipping name non-regulated

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### SECTION 15: Regulatory information

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

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|------------------------|--|
| TSCA Status            | - FDA Exemption - not on inventory   |
| Reporting Requirements | <ul style="list-style-type: none"><li>- The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material.</li><li>- In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEPE Hotline (1-609-292-5560) and to local officials.</li><li>- State and local regulations vary and may impose additional reporting requirements.</li></ul> |

### SECTION 16: Other information

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| Edition documentation | - changes from previous version in sections 11 |
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The information in this safety data sheet is based on current scientific knowledge. It should not be taken as expressing or implying any warranty concerning product characteristics.