

#### **Safety Data Sheet**

# CATHFLO ACTIVASE® Vials (2 mg)

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

#### 1.1. Product identifier

Product name CATHFLO ACTIVASE® Vials (2 mg)

Product code SAP-10146313

Synonyms - ACTIVASE 2mg

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

Use - pharmaceutical active substance (thrombolytic) \*1

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

Company information Enquiries: Local representation:

Genentech, Inc. 1 DNA Way

South San Francisco USA-CA 94080

United States of America

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

\*1 referring to: Alteplase

# **SECTION 2: Hazards identification**

#### **Emergency Overview**

Form lyophilized powder

Color white to off-white

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

GHS Classification no classification and labelling according to GHS

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Other hazards

Note - no information available

# **SECTION 3: Composition/information on ingredients**

Characterization 0.5 M arginine phosphate buffer is used as a buffering agent to

maintain pH at 7.3.

Ingredients Concentration GHS-Classification

(pure ingredient)

Alteplase 2.17 %

105857-23-6

\*1 referring to: Alteplase

#### **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

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

## 4.2. Most important symptoms and effects, both acute and delayed

Note - no information available

#### 4.3. Indication of any immediate medical attention and special treatment needed

Note to physician - treat symptomatically

# **SECTION 5: Firefighting measures**

# 5.1. Extinguishing media

Suitable extinguishing media - adapt extinguishing media to surrounding fire conditions

Flash point (liquid) not applicable

Unsuitable extinguishing media - full water jet

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#### 5.2. Special hazards arising from the substance or mixture

Specific hazards - no particular hazards known

5.3. Advice for firefighters

Protection of fire-fighters - precipitate gases/vapours/mists with water spray

- use self-contained breathing apparatus

Special method of fire-fighting - if possible precipitate fire gases with a water jet

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions - ensure adequate ventilation

#### 6.2. Environmental precautions

Environmental protection - do not allow to enter drains or waterways

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

Methods for cleaning up - collect solids (avoid dust formation) and hand over to waste

removal

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Suitable materials - glass

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

Storage conditions - 2 - 8 °C

- protected from light

Validity - see "best use before" date stated on the label, after opening the

content should be used within a short period, any remaining

reconstituted solution should be discarded

Packaging materials - vials

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Threshold value (USA) air - STEL: 3 mg/m³ (4 x 15 min)

- ACGIH-TLV: 1 mg/m<sup>3</sup> \*2

\*2

Threshold value (Roche) air - IOEL (Internal Occupational Exposure Limit): 0.2 mg/m3 \*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.

- in case of open handling or accidental release:

particle mask or respirator with independent air supply

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

Eye protection - safety glasses

\*1 referring to: Alteplase

\*2 referring to: Phosphoric acid

# **SECTION 9: Physical and chemical properties**

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

Color white to off-white

Form lyophilized powder

Molecular mass ~ 64 kDa \*1

Solubility 148'700 mg/l, water (20 °C) \*3

Partition coefficient log P<sub>ow</sub> -4.20 (octanol/water°C) \*3

pH value 7.3 (reconstituted solution)

#### 9.2. Other information

Note - no information available

\*1 referring to: Alteplase \*3 referring to: L-Arginine

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# **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 reconstituted

solution

- do not freeze the reconstituted solution

#### 10.3. Possibility of hazardous reactions

Note - no information available

#### 10.4. Conditions to avoid

Conditions to avoid - temperatures above 30 °C

- light

# 10.5. Incompatible materials

Note - no information available

# 10.6. Hazardous decomposition products

Note - no information available

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity	- not bioavailable by oral administration	*1
	- TD <sub>lo</sub> > 10 mg/kg (i.v., rat)	*1
	- LD <sub>50</sub> 1'530 mg/kg (oral, rat)	*2
	- LC <sub>50</sub> > 850 mg/m³ (inhal., rat, 1 h)	*2
	- LD <sub>50</sub> 2'740 mg/kg (dermal, rabbit)	*2
	- $LD_{50}$ > 5'110 mg/kg (oral, rat)	*3
Subacute toxicity	- LD <sub>0</sub> 10 mg/kg/d (i.v., several species, 14 d)	*1
Local effects	- skin: non-irritant (rabbit; OECD No. 404)	*3
	<ul> <li>eye: not severe irritant or corrosive</li> </ul>	*3
	- skin: corrosive	*2
Sensitization	anaphylactic reactions may occur following the intravenous application of proteins	*1

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- does not induce chromosomal aberrations in vitro (OECD No. 473 Mutagenicity (Mammalian Cytogenic Test)) \*1 - negative (Ames test) \*1 - negative, both with and without metabolic activation (in vitro test system; OECD No. 473 (Mammalian Cytogenic Test)) \*3 Carcinogenicity - no information available Reproductive toxicity - Alteplase has been shown to have an embryocidal effect in rabbits when intravenously administered at adose of 3 mg/kg, which is roughly twice the human dose for acute myocardial infarction \*1 STOT-single exposure - no information available STOT-repeated exposure - no information available Aspiration hazard - no information available Potential Health Effects - Exposure: Inhalation, Ingestion, Skin contact, Eye contact - Carcinogenicity: not listed by NTP, IARC or OSHA Alteplase referring to: \*2 Phosphoric acid referring to: referring to: L-Arginine

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

**Ecotoxicity** - barely toxic for fish (zebrafish) LC<sub>50</sub> (96 h) 2800 mg/l NOEC (96 h) 1000 mg/l (OECD No. 203, semistatic) \*3 - barely toxic for planktonic crustaceans (Daphnia magna) NOEC (24 h) 1000 mg/l (OECD No. 202) \*3 - barely toxic for microorganisms (Pseudomonas putida)  $EC_{10}$  (16 h) > 10000 mg/kg (DIN 38'412, part 8) \*3 no information available \*1

moderately toxic for fish (fish, unspecified)
 LC<sub>50</sub> 70 mg/l

\*2

#### 12.2. Persistence and degradability

Ready biodegradability - globular proteins are generally well biodegradable \*1 - readily biodegradable \*3

#### 12.3. Bioaccumulative potential

Note - no information available

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#### 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

referring to: Alteplase Phosphoric acid \*2 referring to: \*3 referring to: L-Arginine

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

# **SECTION 14: Transport information**

- not classified as Dangerous Good according to the Dangerous Note

Goods Regulations, proper shipping name non-regulated

# **SECTION 15: Regulatory information**

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

**TSCA Status** - FDA Exemption - not on inventory

Reporting Requirements - The United States Environmental Protection Agency (USEPA) has

not established a Reportable Quantity (RQ) for releases of this

material.

- 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.

State and local regulations vary and may impose additional reporting requirements.

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# **SECTION 16: Other information** Note - Please note this Safety Data Sheet for the bulk product does not apply for the finished, packaged medicinal product intended for the final user. Edition documentation - changes from previous version in sections 2, 4, 5, 6, 12 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.

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