

## **Safety Data Sheet**

# VALIUM(R) Tablets (5 mg)

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

#### 1.1. Product identifier

Product name VALIUM(R) Tablets (5 mg)

Product code SAP-10018402

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

Use - pharmaceutical active substance (anxiolytic) \*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: Diazepam

#### **SECTION 2: Hazards identification**

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

GHS Classification no classification and labelling according to GHS

Other hazards

Note - Benzodiazepines induce central nervous system depression and

drowsiness. In addition, longer use may be habit forming. Hence,

\*1

these compounds are also misused by addicts.

\*1 referring to: Diazepam

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

Ingredients Concentration GHS-Classification (pure ingredient)

Diazepam 2.9 % - Combustible dust (No category), USH003

439-14-5 - Acute toxicity (Category 3), H301

Corn starch 37.7 %

9005-25-8

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

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

#### 4.1. Description of first aid measures

Eye contact - rinse immediately with tap water for 10 minutes - open eyelids

forcibly

Skin contact - drench affected skin with plenty of water

Inhalation - remove the casualty to fresh air

- 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 \*1 - preserve blood and urine samples \*1

- in severe cases of intoxication: Anexate i.V. (Caution: must

possibly be repeated, because the half-life of elimination of

Anexate is shorter than the one of Valium) \*1

\*1 referring to: Diazepam

#### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media - adapt extinguishing media to surrounding fire conditions

- water spray jet, dry powder, foam, carbon dioxide

Flash point (liquid) not applicable

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

Specific hazards - consider dust explosion hazard

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- formation of toxic and corrosive combustion gases (nitrous oxide, hydrogen chloride) possible

## 5.3. Advice for firefighters

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

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

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

Personal precautions - avoid exposure

#### 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

Technical measures - processing in closed systems, if possible superposed by inert gas

(e.g. nitrogen)

- avoid dust formation; consider dust explosion hazard

- take precautionary measures against electrostatic charging

- provide exhaust ventilation

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

Storage conditions - protected from light and humidity

- below 30 °C

Validity - 60 months, < 30 °C, see "best use before" date stated on the label

Packaging materials - polyethylene bag in metal drum

- blister packages

- glass vials, brown

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

#### 8.1. Control parameters

Threshold value (USA) air - ACGIH-TLV: 10 mg/m³ (not classifiable as a human carcinogen) \*2

- OSHA-PEL: 5 mg/m³ (respirable fraction) \*2
- OSHA-PEL: 15 mg/m³ (total dust) \*2

- NIOSH-REL: 5 mg/m³ (respirable fraction) \*2

- NIOSH-REL: 10 mg/m³ (total dust) \*2

Threshold value (Roche) air
- IOEL (Internal Occupational Exposure Limit): 0.02 mg/m³ (defined as 8-hour time-weighted average)
\*

#### 8.2. Exposure controls

General protective and hygiene measures

- instruction of employees recommended

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.

\*1

\*2

- 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

Analytics - sampling on glass fibre filter and gravimetric or chemical

determination

\*1 referring to: Diazepam\*2 referring to: Corn starch

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

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

Color pale yellow

Form cylindrical biplane tablet

Solubility 50 mg/l, water (20 °C) \*1

pH value (20 °C) 4 to 6.6 (100 g/l) \*3

50 g/l, water (90 °C)

(25 °C) 4 to 7 (20 g/l) \*2

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#### 9.2. Other information

Note - no information available

\*1 referring to: Diazepam
\*2 referring to: Corn starch
\*3 referring to: Lactose

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Note - no information available

#### 10.2. Chemical stability

Note - no information available

#### 10.3. Possibility of hazardous reactions

Note - no information available

#### 10.4. Conditions to avoid

Conditions to avoid - warming

lighthumidity

#### 10.5. Incompatible materials

Materials to avoid - oxidizing agents, strong bases, mineral acids \*1

#### 10.6. Hazardous decomposition products

Note - no information available

\*1 referring to: Diazepam

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity -  $LD_{50}$  249 mg/kg (oral, rat) \*1

-  $LD_{50}$  > 2'000 mg/kg (oral, rat)

Chronic toxicity - liver enzyme induction after high doses \*1

Mutagenicity - not mutagenic (various test systems) \*1

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Carcinogenicity	- rat; no evidence of carcinogenicity	*1
Reproductive toxicity	- not teratogenic	*1
Note	<ul> <li>Diazepam has anxiety relaxant, sedative, muscle relaxant and anti-convulsive effects</li> <li>therapeutic dose: 5 to 20 mg/d (adults)</li> <li>elimination half-life: 3 to 48 hours</li> <li>may lead to psychical and physical dependence</li> <li>Caution: alcohol potentiates the effect!</li> </ul>	*1 *1 *1 *1 *1
Potential Health Effects	- Exposure: Ingestion	
	- Carcinogenicity: not listed by NTP, IARC or OSHA	
Additional Health Information	<ul> <li>Conditions Aggravated: Hypersensitivity to this material and other materials in its chemical class. Acute narrow angle glaucoma. Respiratory system conditions.</li> <li>This material may cause impairment of mental and/or physical abilities which are required to perform hazardous tasks, such as operating machinery or driving a motor vehicle.</li> <li>Reproductive Toxicity: An increased risk of congenital malformations associated with the use of minor tranquilizers, suc as diazepam and chlordiazepoxide, during the first trimester of pregnancy has been suggested.</li> <li>The placental transfer of this material in humans has been documented.</li> <li>Since this material may affect the developing fetus, females planning to have a child and pregnant women should exercise caution regarding exposure.</li> <li>It is also advisable for nursing mothers to exercise caution regarding exposure.</li> </ul>	
<ul><li>*1 referring to:</li><li>*4 referring to:</li></ul>	Diazepam Magnesium stearate	
SECTION 12: Ecological information		
12.1. Toxicity		
Ecotoxicity	<ul> <li>strongly toxic for algae (Scenedesmus (=Desmodesmus) subspicatus)         ErC<sub>50</sub> (72 h) 3.11 mg/l (average measured concentration)         ErC<sub>50</sub> (72 h) 22.8 mg/l (nominal concentration)         NOEC (72 h) &lt; 2.56 mg/l (nominal concentration)         (OECD No. 201)     </li> <li>Daphnia magna         NOEC (21 d) 0.8 mg/l (average measured concentration)         (OECD No. 211 (semi-static))     </li> <li>zebrafish         NOEC (35 d) 0.273 mg/l (average measured concentration)         (OECD No. 210)</li> </ul>	*1 *1 *1

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#### 12.2. Persistence and degradability

Inherent biodegradability - not inherently biodegradable

partial primary degradation evidenced by HPLC

< 5 % BOD/ThOD, 28 d < 5 % BOD/ThOD, 84 d (MITI Test II, OECD No. 302 C)

- well inherently biodegradable

≥82 %, 24 h

(batch-wise test similar to SCAS with adaptation phase)

\*1

\*2

\*1

\*1

Abiotic degradation - notable degradation, photodegradation, no hydrolysis 36.3 mg/l,

water; HPLC

100 %, 0 h, ~ 22 °C, start of test 98 %, 120 h, ~ 22 °C, dark

75 %, 120 h, ~ 22 °C, under illumination

#### 12.3. Bioaccumulative potential

Note - no information available

## 12.4. Mobility in soil

Mobility - medium adsorption (, 72 h) \*1

- strong adsorption (water-activated sludge, 24 h, ~22 °C)

K<sub>d</sub> = 52000 to 57000 l/kg (activated sludge)

#### 12.5. Results of PBT and vPvB assessment

Note - no information available

#### 12.6. Other adverse effects

Note - no information available

\*1 referring to: Diazepam \*2 referring to: Corn starch

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### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Waste from residues

- return to supplier or hand over to authorized disposal company
- observe local/national regulations regarding waste disposal
- incinerate in qualified installation with flue gas scrubbing
- DO NOT FLUSH unused medications or POUR them down a sink or drain. If available in your area, use takeback programs run by household hazardous waste collection programs or community pharmacies to dispose of unused and expired medicines. If you don't have access to a takeback program, dispose of these medicines in the household trash by removing them from their original containers and mixing them with an undesirable substance, such as used coffee grounds or kitty litter.

## **SECTION 14: Transport information**

Note

 not classified by transport 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.

#### **SECTION 16: Other information**

Full text of H-Statements referred to under section 3

H301 Toxic if swallowed.

USH003 May form combustible dust concentrations in the air

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, 3, 16

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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