

#### 

according to Regulation (EU) nr. 453/2010

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

#### 1.1. Product identifier

Product name Ibandronat I
Product code 04 7912 8

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

Use - intermediate in the synthesis of an active pharmaceutical

compound

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

Company information Enquiries: Local representation:

F. Hoffmann-La Roche AG

Postfach CH-4070 Basel Switzerland

Phone +41-61/688 54 80 Fax +41-61/681 72 76 E-Mail info.sds@roche.com

## 1.4. Emergency telephone number

Emergency telephone number Phone +41-61/688 54 80

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 1/7

# **SECTION 2: Hazards identification**

#### 2.1. / 2.2. Classification of the substance or mixture / Label elements

GHS Classification Health Hazards:

3.2Skin corrosion/irritation (Category 2)

H315 Causes skin irritation.

3.3 Serious eye damage/eye irritation (Category 1)

H318 Causes serious eye damage.

3.4 Skin sensitization (Category 1)

H317 May cause an allergic skin reaction.

Signalword: Danger

Label:



Precautionary statements:

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

- P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

- P261 Avoid breathing vapour

## 2.3. Other hazards

Note - no information available

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

Chemical name - N-(Phenylmethylene)-1-pentanamine

Synonyms - BM 91.0040

- N-Benzylidene-N-pentylamine

- Ibandron acid step I

CAS number 22710-00-5

Roche number RO0833750-000

Empirical formula C<sub>12</sub>H<sub>17</sub>N

Molecular mass 175.28 g/mol

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 2/7

# **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 - 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

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

# 5.2. Special hazards arising from the substance or mixture

Specific hazards - formation of toxic and corrosive combustion gases (nitrogen

oxides (NOx)) possible

- heating of container(s) will cause pressure rise with risk of

bursting and subsequent explosion

#### 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 - cool endangered containers with water spray

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

# 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions - if this is not endangering the action force or other people, ventilate

sewers and cellars

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 3/7

#### 6.2. Environmental precautions

Environmental protection - if possible close leaks

- if the substance reaches waters or the sewer system, inform the

competent authority

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

Methods for cleaning up - collect liquid by means of sand, earth or another suitable material

or cover it with alcohol-resistant foam

- during the pouring by a pump bear in mind adequate earthing

- collect the product spilled out into ventilated containers equipped

with absorption filters

# **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)

- local exhaust ventilation necessary

- take precautionary measures against electrostatic charging

Suitable materials - aluminium, enamel, stainless steel

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

Storage conditions - dry, cool and ventilated place

- secure container and keep tightly closed

Packaging materials - tightly closing; material: aluminium, stainless steel

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

## 8.1. Control parameters

Note - no information available

## 8.2. Exposure controls

General protective and hygiene measures

- cleanse skin thoroughly after work, apply skin cream

Respiratory protection - in case of open handling or accidental release: protective mask

with combination filter (e.g. ABEKP) or special filter (e.g. BEP) or

respirator with independent air supply

Hand protection - protective gloves (eg made of NBR Acrylnitril-Butadien-Rubber)

Eye protection - safety glasses (i.e. in capsule-shaped frames)

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 4/7

Body protection - disposable (eg TYVEK) or reusable protective clothing; the latter

must be washed (decontaminated) after use

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

# 9.1. Information on basic physical and chemical properties

Colour light yellow

Form liquid

Solubility 280 mg/l, water (20 °C, OECD No. 105)

Partition coefficient log Pow 2.24 (octanol/water)

(Shake Flask Method, OECD No. 107)

Melting temperature < -77 °C (OECD No. 102)

Boiling temperature 250.2 °C (99 kPa) (OECD No. 103)

Vapour pressure 0.9 Pa (15 °C)

2.3 Pa (25 °C) 4.5 Pa (35 °C) (OECD No. 104)

Flash point (liquid) 109.7 °C (DIN 51'755)

Ignition point (liquid) 250 °C

9.2. Other information

Note - non-explosive (Expert Statement)

Surface tension 62.1 mN/m (19.3 °C)

(OECD No. 115, "Surface Tension of Aqueous Solutions")

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

Note - no information available

10.2. Chemical stability

Stability - stable under the conditions mentioned in chapter 7

# 10.3. Possibility of hazardous reactions

Note - no information available

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 5/7

#### 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

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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

Local effects - skin: irritant

- eye: irritant; expert statement

Sensitization - sensitizing (mouse)

(OECD No. 429, LLNA (Local Lymph Node Assay))

Mutagenicity - not mutagenic (various in vitro test systems)

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

Ecotoxicity - moderately toxic for planktonic crustaceans (Daphnia magna)

EC<sub>50</sub> (48 h) 31.7 mg/l NOEC (48 h) 17.6 mg/l (OECD No. 202)

#### 12.2. Persistence and degradability

Ready biodegradability - readily biodegradable

98 %, 7 d

(DOC Die-Away Test, OECD No. 301A)

#### 12.3. Bioaccumulative potential

Note - no information available

12.4. Mobility in soil

Note - no information available

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 6/7

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

PBT/vPvB - not PBT, not vPvB

12.6. Other adverse effects

Air pollution - observe local/national regulations

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

- incinerate in qualified installation with flue gas scrubbing

# **SECTION 14: Transport information**

Note - not classified by transport regulations

## **SECTION 15: Regulatory information**

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

Water hazard class (Germany) 1: weakly hazardous for water (own classification according to

directive VwVwS of 17.05.1999)

## **SECTION 16: Other information**

Safety-lab number - BS-7967

Edition documentation - changes from previous version in sections 2

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.

Date: 30.6.15/LS (SEISMO) Replacing edition of: 28.8.14 Page: 7/7