

Safety Data Sheet

Ibandronat III

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 III

Product code 04 7909 8

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

Use - intermediate

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

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SECTION 2: Hazards identification

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

GHS Classification Physical Hazards:

2.6Flammable liquids (Category 3)
H226 Flammable liquid and vapour.

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:

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P261 Avoid breathing vapour
- 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.

2.3. Other hazards

Note - no information available

SECTION 3: Composition/information on ingredients

Chemical name - 3-(Methylpentylamino)propanoic acid methyl ester

Synonyms - BM 91.0043

- N-Methyl-N-pentyl-β-alanine methyl ester

- Ibandron acid step III

CAS number 744266-99-7

UN number 1993

Roche number RO4982847-000

Empirical formula $C_{10}H_{21}NO_2$

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Molecular mass 187.28 g/mol

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 - consult a physician if skin irritation persists

Inhalation - remove the casualty to fresh air and keep him/her calm

- 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 - foam, powder, carbon dioxide

Unsuitable extinguishing media - use water spray for cooling purposes only (fat explosion hazard)

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

- may form potentially explosive mixtures with air

- Vapours may be invisible and they are heavier than air. They spread on the soil and could penetrate into the sewerage system

and into cellars.

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5.3. Advice for firefighters

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

- chemical incident emergency response unit with full protective

equipment

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 - check the possibility of an explosive atmosphere

- do not use tools which produce sparks, make use of explosion

proof equipment

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

sewers and cellars

6.2. Environmental precautions

Environmental protection - if possible close leaks

- collect the leaked product by all means available

- 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

- make use of explosion-proof pumps

- 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, 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

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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)

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

Form liquid

Solubility 4'900 mg/l, water

Partition coefficient log Pow 2.0 (octanol/water)

(calculated)

Melting temperature < -70.7 °C (OECD No. 102)

Boiling temperature 214.5 °C (99.3 kPa) (OECD No. 103)

Vapour pressure 1.6 Pa (25 °C)

(OECD No. 104)

Flash point (liquid) 57.9 °C (DIN 51'755)

Ignition point (liquid) 240 °C

9.2. Other information

Surface tension 58.3 mN/m (20.5 °C)

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

Solubility properties

Hydrolysis $t_{1/2} = 25.4 \text{ h (pH 7.0, 22 °C)}$

 $t_{1/2} = 4.1 \text{ h (pH 7.8, 22 °C)}$ $t_{1/2} = 0.5 \text{ h (pH 9.0, 22 °C)}$

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SECTION 10: Stability and reactivity

10.1. Reactivity

- no information available Note

10.2. Chemical stability

- stable under the conditions mentioned in chapter 7 Stability

10.3. Possibility of hazardous reactions

Note - no information available

10.4. Conditions to avoid

- no information available Note

10.5. Incompatible materials

- no information available Note

10.6. Hazardous decomposition products

Note - hydrolyses

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity mg/kg (oral, rat) - LD₅₀ > 2'000

(OECD No. 423 (Acute Toxic Class Method))

Local effects - skin: irritant (rabbit; OECD No. 404)

- eye: irritant; expert statement

Sensitization - sensitizing (mouse)

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

Mutagenicity - not mutagenic (in vitro test system; OECD No. 471 (Salmonella

typhimurium))

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity - barely toxic for planktonic crustaceans (Daphnia magna)

> EC_{50} (48 h) > 100 mg/l NOEC (48 h) ≥ 100 mg/l

(OECD No. 202)

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12.2. Persistence and degradability

Ready biodegradability - readily biodegradable

98 %, 14 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

12.5. Results of PBT and vPvB assessment

Note - no information available

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

IATA	Class	UN/ID	PG		PI	Label	Mark	
	3	1993	III		355/366	3		
IMDG	Class	UN	PG	EmS	PI	Label	Mark	
	3	1993	III	F-E S-E	P001/IBC03	3		
RID/ADR	Class	UN	PG	Haz.no	PI	Label	Mark	Classif. code
	3	1993	III	30	P001/IBC03	3		F1

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Proper shipping name FLAMMABLE LIQUID, N.O.S.

Technical name 3-(Methylpentylamino)propanoic acid methyl ester

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-7969

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.

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