

Safety Data Sheet

FCB-Parent API

according to Regulation (EU) nr. 1907/2006

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

1.1. Product identifier

Product name FCB-Parent API

Product code RO4995855-000

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

SECTION 2: Hazards identification

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

GHS Classification no classification and labelling according to CLP (EC Regulation

1272/2008)

2.3. Other hazards

Note - may form explosible dust-air mixture if dispersed

SECTION 3: Composition/information on ingredients

Characterization cytosine nucleoside analog

Chemical name - 2'-α-Fluoro-2'-β-C-methyl-deoxycytidine

 Date:
 18.12.15/LS (SEISMO)
 Replacing edition of:
 19.9.14
 Page:
 1/7

Synonyms - PSI-6130

- FCB Step 10

- HCV Polymerase Inhibitor (parent)

CAS number 817204-33-4

Roche number RO4995855-000

Empirical formula $C_{10}H_{14}FN_3O_4$

Molecular mass 259.24 g/mol

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

- consult a physician if irritation persists

Skin contact - remove 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 - water spray jet, dry powder, foam, carbon dioxide

5.2. Special hazards arising from the substance or mixture

Specific hazards - high probability of ignition of dust whirled up

- consider dust explosion hazard

- substance is hazardous for water: contain fire-fighting wastewater

Date: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 2/7

5.3. Advice for firefighters

Protection of fire-fighters - 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 - no special precautions required

6.2. Environmental precautions

Environmental protection - do not allow to enter drains or waterways

- 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 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; high dust explosion hazard

- connect the equipment to earth, avoid effective sources of ignition

- avoid electric charging of dust clouds

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions - keep container tightly closed

room temperaturestore in a dry place

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Threshold value (Roche) air - IOEL (Internal Occupational Exposure Limit): 1.5 mg/m³

Date: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 3/7

8.2. Exposure controls

Respiratory protection - in case of open handling of larger quantities or accidental release:

particle mask or respirator with independent air supply

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

Eye protection - safety glasses

Body protection - wear conductive shoes

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour white to off-white

Form powder

Solubility 95'100 mg/l, water (20 °C, OECD No. 105)

Partition coefficient log P_{ow} 0.99 (octanol/water) pH 7.0

(HPLC Method, OECD No. 117)

Melting temperature 215 to 219 °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

Note - no information available

10.3. Possibility of hazardous reactions

Note - no information available

10.4. Conditions to avoid

Conditions to avoid - light

- air

- humidity

- temperatures above 110 °C

Date: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 4/7

10.5. Incompatible materials

Materials to avoid - strong oxidizing agents

10.6. Hazardous decomposition products

Note - no information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - LD₀ 5'000 mg/kg (oral, rat)

Subacute toxicity - NOAEL 900 mg/kg/d (oral, rat, 14 d)

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

Sensitization - no information available

Mutagenicity - does not induce chromosomal aberrations in vitro (OECD No. 473

(Mammalian Cytogenic Test))

not mutagenic (OECD No. 474 (Micronucleus Test))not mutagenic (Ames test; OECD No. 471 (Salmonella

typhimurium, Escherichia coli))

Carcinogenicity - no information available

Reproductive toxicity - no information available

STOT-single exposure - no information available

STOT-repeated exposure - no information available

Aspiration hazard - no information available

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity - barely toxic for algae (Desmodesmus (=Scenedesmus)

subspicatus)

 ErC_{50} (72 h) > 100 mg/l (nominal concentration) EyC_{50} (72 h) > 100 mg/l (nominal concentration)

NOEC (72 h) 2.46 mg/l (average measured concentration)

(OECD No. 201)

- barely toxic for planktonic crustaceans (Daphnia magna)

EC₅₀ (48 h) > 100 mg/l (nominal concentration) NOEC (48 h) 100 mg/l (nominal concentration)

(OECD No. 202)

Date: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 5/7

- no adverse influence on substrate biodegradation (activated

sludge)

concentration (28 d) 55.5 mg/l (nominal concentration) (Manometric Respirometry Test, OECD No. 301 F)

12.2. Persistence and degradability

Ready biodegradability - not readily biodegradable

< 10 % BOD/ThOD, 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 - incinerate in qualified installation with flue gas scrubbing

- observe local/national regulations regarding waste disposal

SECTION 14: Transport information

Note - not classified as Dangerous Good according to the Dangerous

Goods 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 27.07.2005)

Date: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 6/7

SECTION 16: Other information	
Safety-lab number	- BS-9839
Edition documentation	- changes from previous version in sections 2, 6
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: 18.12.15/LS (SEISMO) Replacing edition of: 19.9.14 Page: 7/7