

Safety Data Sheet

SFP-Piperazinylpyridine

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 SFP-Piperazinylpyridine

Product code RO4909902-000

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

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SECTION 2: Hazards identification

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

GHS Classification Health Hazards:

3.1 Acute toxicity (Category 3) H301 Toxic if swallowed.

3.2 Skin corrosion/irritation (Category 1B)

H314 Causes severe skin burns and eye damage.

Environmental Hazards:

4.1 Hazardous to the aquatic environment (Category 2) H411 Toxic to aquatic life with long lasting effects.

Signalword: Danger

Label:



Precautionary statements:

- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing / eye protection / face protection.
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- 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.
- P309 + P310 IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

Note - may form explosible dust-air mixture if dispersed

SECTION 3: Composition/information on ingredients

Chemical name - 1-(3-Fluoro-5-trifluoromethyl-pyridin-2-yl)-piperazine

CAS number 845616-81-1

UN number 2923

Roche number RO4909902-000

Empirical formula $C_{10}H_{11}F_4N_3$

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Molecular mass 249.21 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

- consult a physician

Skin contact - remove contaminated clothing immediately and drench affected

skin with plenty of water

Inhalation - get medical treatment immediately

- avoid mouth to mouth artificial respiration, use respiration

equipment

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

 in case of strong exposure betamimetics and topical and/or systemic steroids as needed; subsequent follow-up because of

possible latency of pulmonary symptoms

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

bursting and subsequent explosion

- may attack metals and produce hydrogen gas which may form

explosive mixture with air

- gives off toxic and corrosive fumes, also when burning

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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

- for reasons of environmental protection hold the extinguishing

agent back

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

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 solids (avoid dust formation) and hand over to waste

removal

- collect liquids by means of sand, earth or another suitable material

- use acid resistant equipment

- 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 - avoid dust formation; very high dust explosion hazard

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

(e.g. nitrogen)

- take precautionary measures against electrostatic charging

- local exhaust ventilation necessary

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions - protected from heat, light and humidity

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Threshold value (Roche) air - Category D (Roche Group Directive K1, Annex 3): OEL = 10 μg/m3

8.2. Exposure controls

General protective and

hygiene measures

- instruction of employees recommended

Respiratory protection - in case of open handling 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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour white

Form solid

Solubility soluble, toluene

4'750 mg/l, water (20 °C, OECD No. 105)

Partition coefficient log Pow 1.29 (octanol/water) pH 7.0

(HPLC Method, OECD No. 117)

Melting temperature 61.5 °C (OECD No. 102)

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

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10.4. Conditions to avoid

Conditions to avoid - temperatures above 50 °C

10.5. Incompatible materials

Note - no information available

10.6. Hazardous decomposition products

Note - autocatalytic, very violent exothermal decomposition with an

extremely high decomposition rate

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - LD_{50} ~ 200 mg/kg (oral, rat)

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

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

Mutagenicity - negative, both with and without metabolic activation (Ames test;

OECD No. 471 (Salmonella typhimurium, Escherichia coli))

SECTION 12: Ecological information

12.1. Toxicity

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

subspicatus)

ErC₅₀ (72 h) 2.73 mg/l NOErC (72 h) 0.97 mg/l EyC₅₀ (72 h) 1.21 mg/l NOEyC (72 h) 0.55 mg/l

(OECD No. 201)

- inhibition of substrate degradation in the biodegradability test

(activated sludge)

concentration (28 d) 51.5 mg/l (measured initial concentration)

(Manometric Respirometry Test, OECD No. 301 F)

12.2. Persistence and degradability

Ready biodegradability - not readily biodegradable

0 % BOD/ThOD, 28 d

(Manometric Respirometry Test, OECD No. 301 F)

Inherent biodegradability - not inherently biodegradable

0 %, 28 d

(flask shaking test Roche Basel, inherent biodegradation)

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Abiotic degradation - hydrolytically stable at environmentally relevant pH values

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

PBT/vPvB - substance does not meet the criteria for PBT or vPvB

12.6. Other adverse effects

Note - no information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

SECTION 14: Transport information

Class	UN/ID	PG		PI	Label	Mark	
8 & 6.1	2923	III		860/864	8 & 6.1	EHS	
Class	UN	PG	EmS	PI	Label	Mark	
8 & 6.1	2923	III	F-A S-B	P002/IBC08	8 & 6.1	marine pollutant	
Class	UN	PG	Haz.no	PI	Label	Mark	Classif. code
8 & 6.1	2923	III	86	P002/IBC08	8 & 6.1	EHS	CT2
	8 & 6.1 Class 8 & 6.1 Class	8 & 6.1 2923 Class UN 8 & 6.1 2923 Class UN	8 & 6.1 2923 III Class UN PG 8 & 6.1 2923 III Class UN PG	8 & 6.1 2923 III Class UN PG EmS 8 & 6.1 2923 III F-A S-B Class UN PG Haz.no	8 & 6.1 2923 III 860/864 Class UN PG EmS PI 8 & 6.1 2923 III F-A S-B P002/IBC08 Class UN PG Haz.no PI	8 & 6.1 2923 III 860/864 8 & 6.1 Class UN PG EmS PI Label 8 & 6.1 2923 III F-A S-B P002/IBC08 8 & 6.1 Class UN PG Haz.no PI Label	8 & 6.1 2923 III 860/864 8 & 6.1 EHS Class UN PG EmS PI Label Mark 8 & 6.1 2923 III F-A S-B P002/IBC08 8 & 6.1 marine point Class UN PG Haz.no PI Label Mark

Proper shipping name CORROSIVE SOLID, TOXIC, N.O.S.

Technical name 1-(3-Fluoro-5-trifluoromethyl-pyridin-2-yl)-piperazine

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SECTION 15: Regulatory information

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

Water hazard class (Germany) 3: strongly hazardous for water (own classification according to

directive VwVwS of 27.07.2005)

SECTION 16: Other information

Safety-lab number - BS-8692

- BS-8646

Edition documentation - changes from previous version in sections 2, 8

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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