

#### **Safety Data Sheet**

## **RTC-Ribomethylester**

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 RTC-Ribomethylester

Product code 04 7185 2

## 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**

Chemical name - Methyl-1-(2,3,5-tri-O-acetyl-β-D-ribofuranosyl)-1,2,4-triazole-

3-carboxylate

CAS number 39925-10-5

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Roche number RO0313952-000

Empirical formula C<sub>15</sub>H<sub>19</sub>N<sub>3</sub>O<sub>9</sub>

Molecular mass 385.33 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

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

- 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 - formation of toxic and corrosive combustion gases (nitrogen

oxides (NOx)) possible

- violent decomposition after exposure to heat

- very high dust explosion hazard

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#### 5.3. Advice for firefighters

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

- fight the fire only from a safe distance

## **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 - no special environmental precautions required

#### 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)

- local exhaust ventilation necessary

- take precautionary measures against electrostatic charging

- avoid dust formation; very high dust explosion hazard

Suitable materials - stainless steel, glass, enamel

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

#### 8.1. Control parameters

Note - no information available

## 8.2. Exposure controls

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

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

## 9.1. Information on basic physical and chemical properties

Colour white

Form solid

Partition coefficient log P<sub>ow</sub> 1.1 (n-octanol/water 25 °C)

(HPLC Method, OECD No. 117)

Melting temperature 108 °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

Stability - in case of long-lasting processes (several hours or days) in the

range of the highest acceptable temperature a decomposition with

strongly exothermic course can be expected

- salts with a catalytic effect such as Fe2O3 (rust) accelerate the

decomposition

#### 10.3. Possibility of hazardous reactions

Note - no information available

10.4. Conditions to avoid

Conditions to avoid - temperatures above 120 °C

10.5. Incompatible materials

Note - no information available

## 10.6. Hazardous decomposition products

Note - no information available

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## **SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

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

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

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

Sensitization - no information available

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

(Salmonella typhimurium))

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 fish (rainbow trout)

 $LC_{50}$  (96 h) > 100 mg/l (nominal concentration)

NOEC (96 h) 79 mg/l (average measured concentration)

(OECD No. 203, semi-static)

- barely toxic for algae (Scenedesmus (=Desmodesmus)

subspicatus)

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

EbC<sub>50</sub> (72 h) 86.8 mg/l (average measured concentration)

NOEC (72 h) 50 mg/l (nominal concentration)

(OECD No. 201)

- barely toxic for planktonic crustaceans (Daphnia magna)

 $EC_{50}$  (96 h) > 100 mg/l (nominal concentration)

NOEC (96 h) 98 mg/l (average measured concentration)

(OECD No. 202, semi-static)

- no adverse influence on substrate biodegradation (activated

sludge)

concentration (14 d) 100 mg/l (nominal concentration) (Manometric Respirometry Test, OECD No. 301 F)

#### 12.2. Persistence and degradability

Ready biodegradability - not readily biodegradable

rapid primary degradation through hydrolysis

~ 47 %, 28 d

(Manometric Respirometry Test, OECD No. 301 F)

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Abiotic degradation - rapid degradation, hydrolysis 100 mg/l; HPLC

 $t_{1/2} \sim 24 \text{ h}, \sim 22 \text{ °C}, \text{ dark}$ 

(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

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 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 17.05.1999)

## **SECTION 16: Other information**

Safety-lab number - BS-6713

- BS-6759 - BS-9648

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.

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