

Safety Data Sheet	Gano	iclovir sodi	um
according to Regulation (EU) nr. 1907/2006	6		
SECTION 1: Identification of company/undertaking	f the sub	stance/mixture ar	nd of the
1.1. Product identifier			
Product name	Ganciclov	vir sodium	
Product code	RO10215	92-030	
1.2. Relevant identified uses of th	e substand	ce or mixture and use	es advised against
Use -	pharmace	eutical active substanc	e with antiviral effect
1.3. Details of the supplier of the	safety data	ı sheet	
Company information	Enquiries F. Hoffma Postfach CH-4070 Switzerlar	nn-La Roche AG Basel	Local representation:
	Phone Fax E-Mail	+41-61/681 72 76	n
1.4. Emergency telephone numbe	r		
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	 Health Hazards: 3.5Germ cell mutagenicity (Category 1A) H340 May cause genetic defects. 3.6 Carcinogenicity (Category 1A) H350 May cause cancer. 3.7 Reproductive toxicity (Category 1A) H360FD May damage fertility. May damage the unborn child. 3.9 Specific target organ toxicity - Repeated exposure (Category 1) H372 Causes damage to organs through prolonged or repeated exposure. 		
	Signalword: Danger		
	Label:		
	 Precautionary statements: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P260 Do not breathe dust P281 Use personal protective equipment as required. P308 + P313 IF exposed or concerned: Get medical advice/attention. 		
Note	 classification and labelling are based on data of a substance of similar structure 		
2.3. Other hazards			
Note	- may form explosible dust-air mixture if dispersed		
SECTION 3: Composition/i	nformation on ingredients		
Characterization	synthetic guanine derivative		
Chemical name	 6H-Purin-6-one, 2-amino-1,9-dihydro-9-[[2-hydroxy-1-(hydroxymethyl)ethoxy] methyl]-, sodium salt 		
Synonyms	- RS-021592-030		
CAS number	84245-13-6		
Roche number	Ro1021592-030		
Empirical formula	C ₉ H ₁₃ N ₅ O ₄ Na		

Ganciclovir sodium

Molecular mass	277.22	
SECTION 4: First aid meas	ures	
4.1. Description of first aid meas	sures	
Eye contact	 rinse immediately with tap water for at least 20 minutes - open eyelids forcibly consult a physician 	
Skin contact	 remove immediately contaminated clothes, wash affected skin with water and soap - do not use any solvents consult physician 	
Inhalation	 remove the casualty to fresh air and keep him/her calm get medical treatment 	
4.2. Most important symptoms a	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 symptomaticallypreserve blood and urine samples	
SECTION 5: Firefighting m	easures	
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 (ammonia, nitrogen oxides) possible 	

5.3. Advice for firefighters		
Protection of fire-fighters	 precipitate gases/vapours/mists with water spray do not inhale explosion and/or combustion gases avoid skin contact use self-contained breathing apparatus 	
SECTION 6: Accidental re	lease measures	
6.1. Personal precautions, prot	ective equipment and emergency procedures	
Personal precautions	- avoid exposure	
6.2. Environmental precautions	5	
Environmental protection	- do not allow to enter drains or waterways	
6.3. Methods and material for c	ontainment 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 handl	ing	
Technical measures	 processing in closed systems, if possible superposed by inert gas (e.g. nitrogen) local exhaust ventilation necessary avoid dust formation; consider dust explosion hazard take precautionary measures against electrostatic charging 	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage conditions	 below 30 °C in closed containers protected from light 	
SECTION 8: Exposure controls/personal protection		
8.1. Control parameters		
Threshold value (Roche) air	 IOEL (Internal Occupational Exposure Limit): 5 µg/m³ *1 	
8.2. Exposure controls		
General protective and hygiene measures	 instruction of employees mandatory cleanse skin thoroughly after work, apply skin cream 	

Respiratory protection	 in case of open handling or accidental release: particle mask or respirator with independent air supply
Hand protection	- protective gloves (neoprene, nitrile or butyl rubber)
Eye protection	- safety glasses
Analytics	 sampling on glassfiber filter and chemical determination of the active compound (eg HPLC)
*1 referring to:	Ganciclovir

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Colour	white	
Form	powder	
Odour	odourless	
Solubility	2'670 mg/l, water (pH 7)	*1
Partition coefficient	log P _{ow} -1.96 (n-octanol/water 25 °C) pH 5 (Shake Flask Method, OECD No. 107) log P _{ow} -1.94 (n-octanol/water 25 °C) pH 7 (Shake Flask Method, OECD No. 107)	*1 *1
	log P _{ow} -2.00 (n-octanol/water 25 °C) pH 9 (Shake Flask Method, OECD No. 107)	*1
Melting temperature	242 to 255 °C (with decomposition)	*1
Vapour pressure	≤0.001 hPa (22 °C)	*1
9.2. Other information		
Note	- no information available	
*1 referring to:	Ganciclovir	
SECTION 10: Stability and r	eactivity	
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	
10.4. Conditions to avoid		
Note	- no information available	
10.5. Incompatible materials		
Materials to avoid	- strong oxidizing agents	
10.6. Hazardous decomposition products		
Hazardous decomposition products	- oxides of nitrogen	

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	- LD ₅₀ > 2'000 mg/kg (oral, mouse)	*1
Local effects	- skin: non-irritant	*1
Sensitization	- no information available	
Mutagenicity	- no information available	
Carcinogenicity	- carcinogenic	*1
Reproductive toxicity	teratogenic and embryotoxicmay lower parental fertility	*1 *1
STOT-single exposure	- no information available	
STOT-repeated exposure	- no information available	
Aspiration hazard	- no information available	
Note	 dosage (oral): 1'000 mg (adults) recommended daily dose: 3'000 mg/d elimination half-life: 5 h excretion is mainly renal side effect(s) during therapy: changes in blood count 	*1 *1 *1 *1 *1
*1 referring to:	Ganciclovir	

SECTION 12: Ecological inf	SECTION 12: Ecological information		
	ormation		
12.1. Toxicity			
	 barely toxic for planktonic crustaceans (Daphnia magna) EC₅₀ (48 h) > 1010 mg/l (average measured concentration) NOEC (48 h) 1010 mg/l (average measured concentration) barely toxic for fish (rainbow trout) LC₅₀ (96 h) > 1020 mg/l (average measured concentration) NOEC (96 h) 1020 mg/l (average measured concentration) barely toxic for microorganisms (bacteria, fungi, cyanobacteria in pure culture) NOEC 1000 mg/l 	*1 *1 *1	
12.2. Persistence and degradabil	lity		
	 not inherently biodegradable 2 %, 28 days evidence for medium-term biodegradation in surface waters 	*1 *1	
12.3. Bioaccumulative potential			
Note	- no information available		
12.4. Mobility in soil			
Note	- no information available		
12.5. Results of PBT and vPvB a	ssessment		
Note	- no information available		
12.6. Other adverse effects			
Note	- no information available		
*1 referring to:	Ganciclovir		
SECTION 13: Disposal cons	siderations		
13.1. Waste treatment methods			
	 observe local/national regulations regarding waste disposal incinerate in qualified installation with flue gas scrubbing 		
SECTION 14: Transport info	ormation		
Note	 not classified as Dangerous Good according to the Dangerous Goods Regulations 		

-	 transport classification is based on data of a substance of similar structure
SECTION 15: Regulatory inf	ormation
15.1. Safety, health and environm	ental regulations/legislation specific for the substance or mixture
Water hazard class (Germany)	3: strongly hazardous for water (own classification according to directive VwVwS of 17.05.1999) *1
*1 referring to:	Ganciclovir
SECTION 16: Other information	tion
Edition documentation	 changes from previous version in sections 2, 6
	heet is based on current scientific knowledge. It should not be warranty concerning product characteristics.