

Material Safety Data Sheet

VALCYTE(R) Powder for Constitution

1. Product and Company I	dentification
Product name	VALCYTE(R) Powder for Constitution
Product code	10061366
Use Company information	 Therapeutic Category: Antiviral Enquiries: Hoffmann-La Roche Inc. 340 Kingsland Street USA-Nutley, N.J. 07110-1199 United States of America Phone 001-973/235 50 00 E-Mail info.sds@roche.com US Emergency phone: (800)-827-6243 US Emergency phone: (800)-827-6243
2. Hazards identification	US Chemtrec phone: (800)-424-9300
Emergency Overview	
Form	powder
Color	white to slightly yellow
Hazard Overview	 May cause blood system changes. May cause birth defects based on information on related materials May cause reproductive systems effects based on information on related materials Possible dust explosion hazard based on information on related materials
Potential Health Effects	 Exposure: Inhalation, Ingestion, Skin contact, Eye contact Target Organs: Hematopoietic/blood system
	- Acute Effects: May cause eye irritation., This material has not been tested as a whole; therefore, the information described below is based on one or more of its ingredients.
	- Chronic Effects: May cause blood system effects.
	- Carcinogenicity: formulation not listed by NTP, IARC or OSHA
Additional Health Information	 Reproduction Toxicity: May cause birth defects based on information on related materials. Since this material may affect reproductive capability and the developing fetus, females and males planning to have a child and pregnant women should exercise caution regarding exposure.

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	 It is also advisable for nursing mothers to exercise caution regarding exposure. 	
3. Composition/Information on ingredients		
Ingredients	Concentration	
Valganciclovir hydrochloride CAS: 175865-59-5	~ 46 %	
Fumaric acid CAS: 110-17-8	~ 2 %	
4. First-aid measures		
Eye contact	 in case of contact with eyes rinse thoroughly with plenty of water and get medical advice 	
Skin contact	 remove immediately contaminated clothes, wash affected skin with plenty of water 	
Inhalation	- in case of inhalation remove to fresh air and seek medical aid	
Ingestion	- consult physician	
5. Fire-fighting measures		
Suitable extinguishing media	- water spray jet, dry powder, foam, carbon dioxide	
Flash point (liquid)	(Not applicable)	
Specific hazards	- consider dust explosion hazard	
Protection of fire-fighters	- use self-contained breathing apparatus	
Special method of fire-fighting	- cool endangered containers with water spray	
6. Accidental release measures		
Personal precautions	- ensure adequate ventilation	

7. Handling and storage			
Handling			
Technical measures	 Use with adequate ventilation processing in closed systems, if possible superposed by inert gas (e.g. nitrogen) avoid dust formation; consider dust explosion hazard take precautionary measures against electrostatic charging 		
Storage			
Storage conditions	 2 - 25 °C dry and ventilated place 		
8. Exposure controls/Pers	8. Exposure controls/Personal protection		
Engineering Measures	- see 7.		
Threshold value (Roche) air	 IOEL (Internal Occupational Exposure Limit): 5 μg/m³ *1 		
Personal protective equipment			
Respiratory protection	 Respiratory protection is recommended as a precaution to minimze exposure. Effective engineering controls are considered to be the primary means to control worker exposure. Respiratory protection should not substitute for feasible engineering controls. Respiratory protection is recommended for dusty operations. Use of a negative pressure air purifying, half face respirator with a toxic/dust/mist/fume high efficiency filter in the laboratory or a supplied-air full facepiece respirator or supplied-air hood for production operations is recommended. 		
Hand protection	- protective gloves		
Eye protection	- tightly fitting safety glasses		
Body protection	- protective clothing		
General protective and hygiene measures	 instruction of employees mandatory shower after work recommended 		
*1 referring to:	Valganciclovir hydrochloride		
9. Physical and chemical properties			
Color Form	white to slightly yellow powder		

10. Stability and reactivi	ty	
Stability	- stable under normal conditions	
Materials to avoid	- strong oxidizing agents	
11. Toxicological inform	ation	
Acute toxicity	- LD ₅₀ > 2'000 mg/kg (oral, mouse) - LD ₅₀ > 1'000 mg/kg (oral, dog)	*1 *1
Local effects	 eye: non-irritant (rabbit) skin: non-irritant (rabbit) skin: slightly irritating (rabbit) eye: moderately irritating (rabbit) 	*1 *1 *2 *2
Sensitization	- non-sensitizing (guinea pig)	*1
Chronic toxicity	 NOEL 2 mg/kg/d (oral, rat; 90 days) NOAEL 1 mg/kg/d (oral, mouse; 180 days) NOEL < 0.2 mg/kg/d (oral, dog; 90 days) 	*1 *1 *1
Mutagenicity	- mutagenic	*1
Note	 excretion is mainly renal elimination half-life: 5 h after oral administration ester hydrolysis to the active substance Ganciclovir occurs testicular atrophy, renal and hematologic changes 	*1 *1 *1 *1
*1 referring to:*2 referring to:	Valganciclovir hydrochloride FUMARIC ACID	
12. Ecological information	on	
Inherent biodegradability	 not inherently biodegradable 2 %, 28 days evidence for medium-term biodegradation in surface waters 	*3 *3
Ecotoxicity	 barely toxic for microorganisms (bacteria, fungi, cyanobacteria in pure culture) NOEC 1000 mg/l barely toxic for planktonic crustaceans (Daphnia magna) EC₅₀ (48 h) > 1010 mg/l (average measured concentration) 	*3
	 NOEC (48 h) 1010 mg/l (average measured concentration) barely toxic for fish (rainbow trout) LC₅₀ (96 h) > 1020 mg/l (average measured concentration) 	*3
	 NOEC (96 h) 1020 mg/l (average measured concentration) barely toxic for fish (bluegill sunfish) LC₅₀ (96 h) > 1020 mg/l (average measured concentration) 	*3
	NOEC (96 h) 1020 mg/l (average measured concentration) - Oncorhynchus kisutch	*3
	LC ₅₀ (24 weeks) 10 mg/l - Daphnia magna	*2
	EC ₅₀ (48 hours) 212 mg/l	*2

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Mobility	 barely volatile (water-air) K_H = 0.00000026 Pa*m3/mol (vapor pressure/water solubility) *3 	
*2 referring to: *3 referring to:	FUMARIC ACID Ganciclovir	
13. Disposal consideration	ons	
Waste from residues	 observe local/national regulations regarding waste disposal incinerate in qualified installation with flue gas scrubbing 	
RCRA waste	- not regulated under RCRA	
14. Transport information	า	
Note	 not classified by transport regulations, proper shipping name non-regulated 	
15. Regulatory information	on	
TSCA Status	- FDA Exemption - not on inventory	
Reporting Requirements	 The United States Environmental Protection Agency (USEPA) has not established a Reportable Quantity (RQ) for releases of this material. In New Jersey, report all releases which are likely to endanger the public health, harm the environment or cause a complaint to the NJDEPE Hotline (1-609-292-5560) and to local officials. State and local regulations vary and may impose additional reporting requirements. 	
16. Other information		
Edition documentation	- changes from previous version in sections 1	
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.		