

"Hetero Corporate", 7-2-A2, Industrial Estates, Sanath Nagar, Hyderabad - 500 018. A.P., INDIA. Tel: 91-40-23704923/24/25, Fax: 91-40-23704926, 23714250 e-mail: contact@heterodrugs.com URL: http://www.heterodrugs.com

### **SAFETY DATA SHEET**

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Section 1: I	Product	rang Com	banv iden	uncation

Oseltamivir Phosphate Capsules 30mg, 45mg, 75 mg **Material Name** 

Used to treat influenza Manufacturer **Hetero Labs Limited Unit III** 

22-110, Part-II, IDA, Jeedimetla, Hyderabad-500 055, Telangana,

India.

**Distributor** Camber Pharmaceuticals, Inc., Piscataway, NJ 08854

#### **Section 2: Hazard Identification**

**Emergency Overview** 

**Form** Capsules Color light yellow grey

**Hazard Overview** May cause allergic reactions.

**Potential Health Effects** - Exposure: Inhalation, Ingestion, Skin contact, Eye contact

- Target Organs: eye, skin, gastrointestinal system

- Acute Effects: May cause eye irritation. May cause skin irritation., This material has not been tested as a whole; therefore, the information described below is based on one or more of its ingredients., May cause gastrointestinal effects., Signs and symptoms may include nausea, vomiting, diarrhea, constipation, cramps, and loss of

appetite.

- Chronic Effects: May cause allergic reactions.

- Carcinogenicity: formulation not listed by NTP, IARC or OSHA

- Carcinogenicity: IARC Gr3 not classifiable

\*1 referring to: Talc

## Section 3: Composition/Information on Ingredients

final product Characterization Concentration Ingredients Oseltamivir phosphate ~ 60 %

CAS: 204255-11-8 **Modified Food Starch** 

CAS: 9005-84-9

Talc ~ 5 %

CAS: 14807-96-6

**Povidone** ~ 4 %

CAS: 9003-39-8

~ 28 %

# Section 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



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## Section 5: Fire-Fighting Measures

Suitable extinguishing media - water spray jet, dry powder, foam, carbon dioxide

Flash point (liquid)

- not applicable

Specific hazards **Protection of fire-fighters**  - Toxic emissions may be given off in a fire - use self-contained breathing apparatus

Special method of fire-

- cool endangered containers with water spray

fighting

### **Section 6: Accidental Release Measures**

Personal precautions **Environmental Protection** Methods for cleaning up

- ensure adequate ventilation
- avoid release to the environment
- Scoop or shovel spilled material into a suitable labeled open head
- Secure the drum cover and move the container to a safe holding area
- Clean spill area thoroughly
- Collect wash with a noncombustible absorbent material and transfer to labeled container for treatment and disposal.
- Check area for residual material and repeat clean up if detected

## Section 7: Handling and Storage

Handling

**Technical measures** 

Storage

Storage conditions

- local exhaust ventilation necessary
- keep containers tightly closed
- room temperature
- store in a dry place
- protected from light

#### **Section 8: Exposure Controls/Personal Protection**

- See 7.

## Threshold value (USA) air

 ACGIH-TLV: 10 mg/m<sup>3</sup> - OSHA-PEL: 15 mg/m3 (total particulate) - OSHA-PEL: 5 mg/m³ (respirable fraction)

\*2 \*2 \*2

\*2

\*2

\*1

\*1

\*1

\*3

- NIOSH-REL: 10 mg/m<sup>3</sup> (total dust)
  - NIOSH-REL: 5 mg/m<sup>3</sup> (respirable fraction) ACGIH-TLV: 2 mg/m³ (respirable fraction) (use asbestos

TLV-TWA, should not exceed 2mg/m3 respirable particulates)

OSHA-PEL: 2 mg/m<sup>3</sup> (respirable fraction) NIOSH-REL: 2 mg/m<sup>3</sup> (respirable fraction)

Threshold value (Roche) air

IOEL (Internal Occupational Exposure Limit): 0.2 mg/m<sup>3</sup>

# Personal protective equipment

#### Respiratory protection

Respiratory protection is recommended as a precaution to minimize 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 not necessary



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Hand protection - protective gloves - Safety glasses Eye protection - protective clothing **Body protection** \*1 referring to: Talc Modified Food Starch \*2 referring to: \*3 referring to: Oseltamivir phosphate (NS) Section 9: Physical and Chemical Properties Color light yellow grey **Form** capsules soluble, water Solubility Section 10: Stability and Reactivity Stability - stable under the conditions mentioned in chapter 7 Conditions to avoid - high temperatures Materials to avoid - strong acids, oxidizing agents Note - Hazardous Polymerization: Will not occur. **Section 11: Toxicological Information** - LD<sub>50</sub> > 2'000 \*4 **Acute toxicity** mg/kg (oral, rat) - MNLD 100 mg/kg (i.v., mouse) \*3 - MNLD > 2'000 \*3 mg/kg (oral, mouse) - MNLD > 2'000 mg/kg \*3 (oral, rat) Local effects - eye: irritant (rabbit; OECD No. 405) \*3 \*3 - not phototoxic (in vitro) Sensitization - sensitizing (guinea pig) (OECD No. 406) \*3 - not sensitizing (guinea pig) \*3 **Subchronic toxicity** - NOAEL 250 mg/kg/d (oral, rat; 4 weeks) \*3 - NOAEL 500 mg/kg/d (oral, marmoset; 7 days) \*3 Mutagenicity \*3 - not mutagenic (Ames test) - not mutagenic (various in vitro test systems) \*3 \*3 Reproduction toxicity - does not lower parental fertility (several species) \*3 - not teratogenic (several species) **Note** - side effects: nausea, vomiting \*3 - therapeutic dose: 2 x 75 mg/d p.o. for 5 days \*3 \*3 referring to: Oseltamivir phosphate (NS) referring to: POVIDONE K 30 Section 12: Ecological Information \*3 Ready biodegradability - not readily biodegradable 3 %, 28 days 2.8 %, 14 days (CO2 Evolution Test, Modified Sturm Test, OECD No. 301B)



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Inherent biodegradability	<ul> <li>not inherently biodegradable</li> <li>10 %, 1 d</li> <li>10 %, 16 d</li> <li>10 %, 28 d</li> <li>(flask shaking test Roche Basel, inherent biodegradation)</li> <li>not inherently biodegradable</li> <li>12 %, 28 days</li> <li>12 %, 15 days</li> <li>0 %, 8 days</li> <li>(flask shaking test Roche Basel, inherent biodegradation)</li> </ul>	*4
Abiotic degradation	<ul> <li>Slow degradation, photodegradation, no significant hydrolysis (mg/l (measured initial concentration), water; HPLC)</li> <li>13 %, 120 h, ~ 22 °C, under illumination</li> </ul>	(204 *3
Ecotoxicity	~ 2 %, 120 h, ~ 22 °C, dark  - moderately toxic for algae (Selenastrum capricornutum)  EbC <sub>50</sub> (96 h) 59 mg/l  ErC <sub>50</sub> (96 h) 463 mg/l  NOEbC (96 h) 10 mg/l  NOErC (96 h) 46 mg/l  (OECD No. 201)	*3
	- moderately toxic for planktonic crustaceans (Daphnia magna)	3
	EC <sub>50</sub> (48 h) 33 mg/l (OECD No. 202)	*3
	- barely toxic for fish (carp)	3
	LC <sub>50</sub> (96 h) > 100 mg/l (OECD No. 203) - no adverse influence on substrate biodegradation (activated	*3
	sludge) concentration (14 d) 30 mg/l (nominal concentration) (MITI Test II, OECD No. 302C)	*3
Mobility	<ul> <li>moderate to strong adsorption (water-activated sludge, 28 d, ~2 K<sub>d</sub> = 99 l/kg (activated sludge, 24 h)</li> <li>K<sub>d</sub> = 3247 l/kg (activated sludge, 28 d)</li> <li>(Adsorption to activated sludge in biodegradability test)</li> </ul>	22 °C) *3
Air pollution *3 referring to: *4 referring to:	- observe local/national regulations Oseltamivir phosphate (NS) POVIDONE K 30	3
	Section 13: Disposal Considerations	
Waste from residues	- incinerate in qualified installation with flue gas scrubbing	
	<ul> <li>observe local/national regulations regarding waste disposal</li> <li>DO NOT FLUSH unused medications or POUR them down a sor drain. If available in your area, use takeback programs run be household hazardous waste collection programs or community pharmacies to dispose of unused and expired medicines. If you don't have access to a takeback program, dispose of these medicines in the household trash by removing them from their original containers and mixing them with an undesirable substational sused coffee grounds or kitty litter.</li> </ul>	oy u ance,
Contaminated packaging	<ul> <li>Empty containers must be triple rinsed prior to disposal, recycli reuse.</li> </ul>	ing or



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**RCRA** waste - not regulated under RCRA Section 14: Transport Information - not classified by transport regulations, proper shipping name **Note** non-regulated **Section 15: Regulatory Information TSCA Status** - FDA Exemption - not on inventory - The United States Environmental Protection Agency (USEPA) has **Reporting Requirements** 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. **Section 16: Other Information** 

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.

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