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1. NAME OF THE DRUG PRODUCT

Podophyllin Cream 0.15%w/w

Pharmaceutical/Dosage form

Topical Cream Medication

2. QUALITATIVE AND QUANTITATIVE COMPOSITION

Oualitative declaration

Podophyllotoxin... 0.15% w/w

Cream base q.s.

7a⊾⊤	T 10 4		Quantity	Overag	Quantity	Water/LO	Total quantity
NO	Ingredients	of	required	e	required	D content	required per 1
•		ingredient	per 1 gm	(%)	per 1 gm	(%)	gm
		S					
Active							
1.	Podophyllum resin	Active	3.0 mg	Nil	60.0 mg.	Nil	3.0 mg
		Ingredient					
Inactive							
2.	Heavy	Emollient	60.0 mg	Nil	1200.0 mg	Nil	60.0 mg
	Liquid						
	Paraffin						
	IHS						
3.	White soft paraffin	Emollient	60.0 mg	Nil	1200.0 mg	Nil	60.0 mg
	IHS						
4.	Cetomacrogol-	Emollient	22.500 mg	Nil	450.0 mg	Nil	22.500 mg
	1000 IHS						
5.	Cetostearyl alcohol	Emollient	72.00 mg	Nil	1440.0 mg	Nil	72.00 mg
	IHS						
6.	Propylene	Stabilizing	100.00 mg	Nil	2000.0 mg	Nil	100.00 mg
	glycol IHS	agent					
7.	Benzyl alcohol IHS	Preservative	10.00 mg	Nil	200.0 mg	Nil	10.00 mg
8.	Purified water IHS	Solvent	672.500 mg	Nil	13450.0 mg	Nil	672.500 mg
	Average weight				I	I	20.000 gm

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3. PHARMACEUTICAL FORM

Light Brown colored cream

4. CLINICAL PARTICULARS

4.1 Therapeutic indications:

For removal of Corns, warts, including plantar warts and sexually transmitted (Venereal) warts. It is also used topically for treating pre-cancerous white patches on the tongue and mouth (oral hairy leukoplakia).

Intravaginally, podophyllum is used to treat gynecologic infections.

4.2 Posology/Dosage and method of administration

The affected area should be thoroughly washed with soap and water, and dried prior to application.

Using a fingertip, the cream should be applied twice daily morning and evening (every 12 hours) for 3 consecutive days using only enough cream to just cover each wart. The cream should then be withheld for the next 4 consecutive days.

Application to the surrounding normal tissue should be avoided.

Residual warts should be treated with further courses of twice daily applications for three days at weekly intervals, if necessary for a total of 4 weeks of treatment.

Hands should be washed thoroughly after application.

Paediatric population

The safety and efficacy of topical podophyllotoxin have not been established in children under the age of 18.

4.3 Contraindications

Hypersensitivity to the active substance or to any of the excipients listed in section 6.1.

Open or bleeding wounds.

Concomitant use with other podophyllotoxin containing preparations.

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4.4 Special warnings and precautions for use

Where the area of treatment is greater than 4 cm2, it is recommended that treatment takes place under the direct supervision of a healthcare professional.

Avoid applying the cream to warts occurring on mucous membranes of the genital area (including the urethra, rectum and vagina).

Avoid applying the cream to surrounding healthy tissue.

Avoid contact with eyes. Should the cream accidentally come into the eye, the eye should be thoroughly rinsed with water and medical advice sought.

Occlusive dressings should not be used in areas treated with the cream.

Local irritation may occur on the second or third day of application associated with the start of wart necrosis. In most cases, the reactions are mild. If severe local skin reactions occur (bleeding, swelling, excessive pain, burning, itching) the cream should be washed immediately from the treatment area with mild soap and water, treatment discontinued, and the patient advised to seek medical advice.

Podophyllin Cream is not recommended during pregnancy or in women of childbearing potential not using contraception (see section 4.6).

It is recommended that patients refrain from sexual intercourse while treating warts with the cream and until the skin has healed. If a patient does engage in sexual intercourse, a condom must be used.

The order of warnings and precautions should in principle be determined by the importance of the safety information provided.

4.5 Interaction with other drug products and other forms of interaction

At present, no information is available.

4.6 Fertility, pregnancy and lactation

Pregnancy

There are limited data from the use of podophyllotoxin in pregnant women.

Although there is very limited systemic absorption from topically applied podophyllotoxin, antimitotic products such as podophyllotoxin are known to be embryotoxic. Podophylline Cream is not recommended during pregnancy or in women of childbearing potential

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not using contraception.

Breastfeeding

There is insufficient information on the excretion of topically applied

podophyllotoxin in human milk.

A risk to the newborns/infants cannot be excluded.

A decision must be made whether to discontinue breastfeeding or to

discontinue/abstain from podophyllotoxin therapy considering the benefit of

breastfeeding for the child and the benefit of therapy for the woman.

4.7 Effects on ability to drive and use machines

At present, no information is available.

Undesirable effects 4.8

The frequency of adverse reactions listed below is defined using the following

convention: very common ($\geq 1/10$); common ($\geq 1/100$, < 1/10); uncommon (\geq

1/1,000, < 1/100); rare ($\ge 1/10,000, < 1/1,000$); very rare (< 1/10,000); not known

(cannot be estimated from the available data). Within each frequency grouping,

undesirable effects are presented in order of decreasing seriousness.

Skin and subcutaneous tissue disorders

Very Common: Skin erosion, application site irritation (including erythema,

pruritus, skin burning sensation)

Post-marketing data

The following adverse drug reactions are based on post-marketing reports. Since

these reports are from a population of uncertain size and are subject to confounding

factors, it is not possible to reliably estimate their frequency, however in reality

systemic reactions are rarely seen.

Immune system disorders

Not known: Application site hypersensitivity

Skin and subcutaneous tissue disorders

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Not known: Skin ulcer, scab, skin discoloration, blister, dry skin

General disorders and administration site conditions

Not known: Application site pain, swelling, application site bleeding

Injury, poisoning and procedural complications

Not known: Caustic injury, excoriation, wound secretion

Reporting of suspected adverse reactions

Reporting suspected adverse reactions after authorisation of the medicinal

product is important. It allows continued monitoring of the benefit/risk balance of

the medicinal product.

4.9 Overdose

While serious systemic effects have not been reported with the recommended

dosage of topical podophyllotoxin, topical overdosage would be expected to

increase systemic absorption of the drug and increase the potential for systemic

effects, e.g. altered mental state and bone marrow suppression. Following oral

ingestion, podophyllotoxin may also cause severe gastroenteritis.

Treatment

If topical overdosage occurs, podophyllotoxin should be washed immediately from

the treatment area and symptomatic and supportive therapy initiated.

Treatment of oral podophyllotoxin poisoning is symptomatic and should include

supportive care. Further management should be as clinically indicated or as

recommended by the National Poisons Centre, where available.

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5. PHARMACOLOGICAL PROPERTIES

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5.1 Pharmacodynamic properties

Pharmaco-therapeutic group: Chemotherapeutics for topical

use, Antivirals ATC code: D06BB

Podophyllotoxin is a metaphase inhibitor in dividing cells binding to at least one

binding site on tubulin. Binding prevents tubulin polymerisation required for

microtubule assembly. At higher concentrations, podophyllotoxin also inhibits

nucleoside transport through the cell membrane.

The chemotherapeutic action of podophyllotoxin is assumed to be due to inhibition

of growth and the ability to invade the tissue of the viral infected cells.

5.2 Pharmacokinetic properties

Systemic absorption of podophyllotoxin after topical application of 100 mg of 0.3% cream

or 100 µL of 0.5% solution has been studied (extravaginally in 10 females, and within the

preputial cavity in 10 males, each on 2 occasions separated by 8 hours).

Cmax was at or below 4.7 ng/mL following all doses and Tmax ranged from 0.5 to 36 hours;

in some subjects concentrations were below the limit of detection. The Cmax and Tmax

were comparable for the 0.3% cream and 0.5% solution in both males and females. It can be

concluded that systemic absorption of recommended doses of podophyllotoxin cream or

solution is expected to be low.

5.3 Preclinical safety data

Carcinogenesis/Mutagenesis

Podophyllotoxin was not carcinogenic following dietary administration up to 0.3 mg/kg/day

for 104 weeks in rats and 80 weeks in mice.

Podophyllotoxin was not mutagenic in in vitro Ames Assays, mouse lymphoma

assay, and human lymphocyte metaphase assay. Podophyllotoxin showed

evidence of mutagenicity in vitro HPRT mutation assays, however results were

inconsistent regarding the dose response observed across replicate cultures. In

mouse micronucleus studies, results were also inconsistent as one study did not

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show evidence of mutagenicity and one study did show evidence of an aneugenic effect (increased incidence of micronucleated polychromatic erythrocytes, mitotic arrest). Podophyllotoxin did induce aneuploidy in hamster oocytes.

Reproductive Toxicology

Fertility

In a multi-generational rat fertility and general reproductive performance study, podophyllotoxin administered orally up to 2.5 mg/kg/day had no effect on fertility in female or male rats.

Pregnancy

Podophyllotoxin was not teratogenic in rabbits administered up to 0.5% podophyllotoxin topically or in rats administered up to 5 mg/kg/day intraperitoneally.

6. PHARMACEUTICAL PARTICULARS

6.1 List of excipients

Heavy Liquid Paraffin

White soft paraffin

Cetomacrogol-1000

Cetostearyl alcohol

Propylene glycol

Benzyl alcohol

Purified water

6.2 Incompatibilities

Not Applicable.

6.3 Shelf life

3 years

6.4 Special precautions for storage

Do not Store Above 30°C

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6.5 Nature and contents of container

20 gm printed lami tube & sealed with white colored plastic cap packed in a printed box with leaflet.

6.6 Special precautions for disposal of a used medicinal product or waste materials derived from such medicinal product and other handling of the product

No special requirements.

7. APPLICANT/HOLDER OF CERTIFICATE OF PRODUCT REGISTRATION CHINARE ANI PHARMACEUTICALS LTD.

52-b, Ishokun-Odo Street, Ijebu-Owo, Ondo State, Nigeria

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8. DRUG PRODUCT MANUFACTURER PROTECH BIOSYSTEMS PVT. LTD.

Bhagwanpur, Roorkee, Distt. Haridwar, Uttarakhand, India.

9. NAFDAC REGISTRATION NUMBER(S) NA.

10. DATE OF REVISION OF THE TEXT

NA.