# PRODUCT MONOGRAPH INCLUDING PATIENT MEDICATION INFORMATION

## PREUCRISA<sup>TM</sup>

Crisaborole

Ointment, 2 % for topical use

Phosphodiesterase-4 (PDE-4) inhibitor

Pfizer Canada ULC 17,300 Trans-Canada Highway Kirkland, Quebec H9J 2M5 Date of Revision: May 18, 2021

TM Anacor Pharmaceuticals, Inc., owner / Pfizer Canada ULC

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EUCRISA TM (Crisaborole)

#### PART I: HEALTH PROFESSIONAL INFORMATION

#### 1 **INDICATIONS**

EUCRISA (crisaborole ointment, 2 %) is indicated for topical treatment of mild to moderate atopic dermatitis in adults and pediatric patients 3 months of age and older.

#### 1.1 **Pediatrics**

Pediatrics (3 months to <18 years): Based on the data submitted and reviewed by Health Canada, the safety and effectiveness of EUCRISA have been established in pediatric patients age 3 months and older for topical treatment of mild to moderate atopic dermatitis.

Pediatrics (3 months of age): No data are available to Health Canada, therefore, Health Canada has not authorized an indication for pediatric patients below the age of 3 months.

#### 1.2 Geriatrics

## Geriatrics ( $\geq$ 65 years of age):

Evidence from clinical studies of EUCRISA did not include sufficient numbers of patients 65 years of age and over to determine whether they respond differently from younger patients.

#### **CONTRAINDICATIONS** 2

EUCRISA is contraindicated in patients who are hypersensitive to this drug or to any ingredient in the formulation, including any non-medicinal ingredient, or component of the container.

For a complete listing, see Dosage Forms, Strengths, Composition and Packaging.

#### SERIOUS WARNINGS AND PRECAUTIONS BOX 3

Not applicable

#### DOSAGE AND ADMINISTRATION

#### 4.1 **Dosing Considerations**

Not applicable

#### Recommended Dose and Dosage Adjustment 4.2

Apply a thin layer of EUCRISA twice daily to affected areas.

#### 4.3 Administration

EUCRISA should be applied topically twice daily to all affected areas of skin.

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EUCRISA is for topical use only and not for oral, ophthalmic or intravaginal use.

#### 4.4 Missed Dose

Advise patients if they forget to use EUCRISA as directed, to apply it as soon as possible, then go back to their regular schedule.

#### 5 OVERDOSAGE

EUCRISA is not for oral use.

There are no data from clinical trials regarding signs and symptoms of overdose of EUCRISA. Overdosage with EUCRISA is not anticipated with dermal application. If surplus EUCRISA has been applied, the excess should be thoroughly wiped off.

For management of a suspected drug overdose, contact your regional poison control centre.

## 6 DOSAGE FORMS, STRENGTHS, COMPOSITION AND PACKAGING

Table 1 – Dosage Forms, Strengths, Composition and Packaging.

Route of Administration	Dosage Form / Strength/Composition	Non-medicinal Ingredients
Topical	Ointment: 30g, 60g and 100g 20 mg of crisaborole per gram (2%) of white to off-white ointment	butylated hydroxytoluene, edetate calcium disodium, mono- and di-glycerides, paraffin, white petrolatum, propylene glycol.

EUCRISA contains 2% crisaborole (w/w) in a petrolatum-based, white to off-white ointment and is for topical use. Each gram of EUCRISA contains 20 mg of crisaborole in an ointment containing white petrolatum, propylene glycol, mono- and di-glycerides, paraffin, butylated hydroxytoluene, and edetate calcium disodium.

EUCRISA is supplied in 30g, 60g, and 100g multilaminate tubes.

#### 7 WARNINGS AND PRECAUTIONS

#### **Hypersensitivity**

Hypersensitivity reactions, including contact urticaria, have occurred in patients treated with EUCRISA. Hypersensitivity should be suspected in the event of severe pruritus, swelling and erythema at the application site or at a distant site. If signs and symptoms of hypersensitivity occur, discontinue EUCRISA immediately and initiate appropriate therapy.

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#### 7.1 **Special Populations**

#### 7.1.1 **Pregnant Women**

There is no available data with EUCRISA in pregnant women to inform the drug-associated risk for major birth defects and miscarriage. In animal reproduction studies, there were no adverse developmental effects observed with oral administration of crisaborole in pregnant rats and rabbits during organogenesis at doses up to 3 and 2 times, respectively, the maximum recommended human dose (MRHD).

## 7.1.2 Breast-feeding

It is unknown if EUCRISA is excreted in human milk. There is no information available on the effects of the drug on the breastfed infant or the effects on milk production after topical application of EUCRISA to women who are breastfeeding. EUCRISA is systemically absorbed. The lack of clinical data during lactation precludes a clear determination of the risk of EUCRISA to a breastfed infant. Therefore, the developmental and health benefits of breastfeeding should be considered along with the mother's clinical need for EUCRISA and any potential adverse effects on the breastfed infant from EUCRISA or from the underlying maternal condition. Because many drugs are excreted in human milk, precaution should be exercised.

### 7.1.3 Pediatrics

**Pediatrics (3 months to <18 years)**: Based on the data submitted and reviewed by Health Canada, the safety and effectiveness of EUCRISA for topical treatment of mild to moderate atopic dermatitis have been established in pediatric patients age 3 months and older. Use of EUCRISA in this age group is supported by data from two 28 day adequate, vehicle-controlled safety and efficacy trials which included 1,313 pediatric patients ages 2 to <18 years old of whom 874 received EUCRISA. The most commonly reported adverse reaction in subjects 2 years and older was application site pain. Additionally, use of EUCRISA in pediatric patients aged 3 months to less than 2 years was supported by data from a 28-day open-label, safety and pharmacokinetics (PK) trial in 137 subjects. No new safety signals were identified in subjects 3 months to less than 2 years of age (see ADVERSE REACTIONS, ACTION AND CLINICAL PHARMACOLOGY and CLINICAL TRIALS).

The safety and effectiveness of EUCRISA in pediatric patients below the age of 3 months have not been established.

#### 7.1.4 Geriatrics

Evidence from clinical studies of EUCRISA did not include sufficient numbers of patients 65 years of age and over to determine whether they respond differently from younger patients.

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#### 8 ADVERSE REACTIONS

#### 8.1 Adverse Reaction Overview

The most common adverse drug reactions reported in clinical trials among patients with mild to moderate atopic dermatitis 2 years of age and older have been application site reactions.

#### **8.2** Clinical Trial Adverse Reactions

Because clinical trials are conducted under very specific conditions, the adverse reaction rates observed in the clinical trials may not reflect the rates observed in practice and should not be compared to the rates in the clinical trials of another drug. Adverse reaction information from clinical trials is useful for identifying drug-related adverse events and for approximating rates.

In two randomized, double-blind, parallel-group, vehicle-controlled Phase 3 clinical trials (Studies AN2728-AD-301 and AN2728-AD-302), 1012 patients 2 to 79 years of age with mild to moderate atopic dermatitis were treated with EUCRISA twice daily for 4 weeks. The adverse reaction reported by  $\geq 1\%$  of EUCRISA-treated patients is listed in Table 2.

Table 2: Adverse Reaction Occurring in ≥1% of Patients in Atopic Dermatitis Trials through Week 4

Adverse Reaction	EUCRISA N=1012 n (%)	Vehicle N=499 n (%)	
Application site pain <sup>a</sup>	45 (4.45%)	6 (1.20%)	

<sup>&</sup>lt;sup>a</sup> Refers to skin sensations such as burning or stinging.

#### 8.3 Less Common Clinical Trial Adverse Reactions

Less common (<1%) adverse reactions in patients treated with EUCRISA included application site reactions (including contact dermatitis and pruritus) and flare of atopic dermatitis.

In an open-label, single arm, long-term safety study, 517 patients 2 to 72 years of age (including 454 patients 2 to 17 years of age), who had completed one of the Phase 3 studies without safety issues that precluded further treatment, were treated with EUCRISA twice daily intermittently for up to 48 weeks in 28 day on-treatment or off-treatment cycles. A total of 9 (2%) patients discontinued the therapy due to adverse events. The most frequently reported adverse events included atopic dermatitis, application site pain, and application site infection.

## 8.4 Abnormal Laboratory Findings: Hematologic, Clinical Chemistry and Other Ouantitative Data

Results for clinical laboratory testing have not identified clinically important changes from

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baseline to the end of study in mean or median values for any hematology or biochemistry parameters in any of the clinical studies in patients with atopic dermatitis.

## 8.5 Clinical Trial Adverse Reactions (Pediatrics)

In a multicenter, open-label, uncontrolled trial, 137 pediatric subjects aged 3 months to less than 2 years were treated with EUCRISA twice daily for 4 weeks. Overall, the safety profile of EUCRISA in this age group was consistent with that of Studies AN2728-AD-301 and AN2728-AD-302 in subjects 2 years of age and older

### **8.6** Post-Market Adverse Reactions

The following adverse reactions have been identified during post-approval use of EUCRISA. Because these reactions are reported voluntarily from a population of uncertain size, it is not always possible to reliably estimate their frequency or establish a causal relationship to drug exposure:

Application site reactions

#### 9 DRUG INTERACTIONS

## 9.1 Serious Drug Interactions Box

Not applicable

#### 9.2 Overview

In vitro studies using human liver microsomes indicated that under the conditions of clinical use, crisaborole and metabolite 1 are not expected to inhibit cytochrome P450 (CYP) 1A2, 2B6, 2C8, 2C9, 2C19, 2D6, and 3A4.

In vitro studies using human liver microsome for metabolite 2 showed that it did not inhibit activities of CYP2C19, 2D6, and 3A4; was a weak inhibitor of CYP1A2 and 2B6; and a moderate inhibitor of CYP2C8 and 2C9.

In vitro studies in human hepatocytes showed that under the conditions of clinical use, crisaborole and metabolites 1 and 2 are not expected to induce CYP enzymes.

In vitro studies showed that crisaborole and metabolite 1 did not inhibit the activities of uridine diphosphate (UDP)-glucuronosyltransferase (UGT) 1A1, 1A4, 1A6, 1A9, 2B7, and 2B15. Metabolite 2 did not inhibit UGT1A4, 1A6, 2B7, and 2B15. Metabolite 2 showed weak inhibition of UGT1A1, however, no clinically significant drug interactions are expected between crisaborole (and its metabolites) and UGT1A1 substrates at therapeutic concentrations. Metabolite 2 showed moderate inhibition of UGT1A9 and may result in a moderate increase of the concentrations of sensitive UGT1A9 substrates.

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In vitro studies indicate that under the condition of clinical use, crisaborole and metabolites 1 and 2 are not expected to cause clinically significant interactions with substrates of Pglycoprotein and organic anionic or cationic transporters. Crisaborole and metabolite 1 are not expected to inhibit breast cancer resistance protein (BCRP); metabolite 2 is expected to inhibit BCRP at therapeutic concentrations.

#### 9.3 **Drug-Drug Interactions**

The most sensitive enzyme, CYP2C9, was further investigated in a clinical trial with coadministration of EUCRISA with warfarin, a CYP2C9 substrate. The results of this study showed no drug interaction potential.

#### 9.4 **Drug-Food Interactions**

Interactions with food have not been evaluated, as not applicable for topical products.

#### 9.5 **Drug-Herb Interactions**

Interactions with herbal products have not been evaluated.

#### 9.6 **Drug-Laboratory Test Interactions**

Interactions with laboratory tests have not been evaluated.

#### 9.7 **Drug-Lifestyle Interactions**

Interactions with lifestyle have not been evaluated.

### 10 ACTION AND CLINICAL PHARMACOLOGY

#### 10.1 **Mechanism of Action**

Crisaborole is a phosphodiesterase 4 (PDE-4) inhibitor. PDE-4 inhibition results in increased intracellular cyclic adenosine monophosphate (cAMP) levels. While the specific mechanism(s) by which crisaborole exerts its therapeutic action is not well defined, crisaborole reduces the production of some inflammatory cytokines implicated in the pathophysiology of atopic dermatitis.

#### 10.2 **Pharmacodynamics**

At therapeutic doses, EUCRISA ointment is not expected to prolong QTc to any clinically relevant extent. In a thorough QT/QTc study of healthy volunteers, there was no clinically

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A randomized clinical study was carried out to determine the potential of EUCRISA ointment, 2%, to induce sensitization and to cause irritation by repeated topical application to normal skin of healthy volunteers (18 years of age or older) under controlled conditions. In this study, EUCRISA showed no evidence of skin sensitization potential. Some skin irritations (e.g. erythema, edema and papules) were reported.

#### 10.3 Pharmacokinetics

Table 3 - Summary of EUCRISA Pharmacokinetic Parameters in 2-17 year old patients with mild to moderate atopic dermatitis and treated BSA range from 27% - 92%

	C <sub>max</sub> ng/ml	T <sub>max</sub> (hrs, median (range))	AUC <sub>0-12</sub> (ng,hr/mL)
Steady State Mean (SD)	127 (196)	3.00 (3.00 – 24.0)	949 (1240)

### **Absorption:**

The pharmacokinetics (pK) of EUCRISA were investigated in 33 pediatric patients 2 to 17 years of age with mild to moderate atopic dermatitis and a mean  $\pm$  SD body surface area (BSA) involvement of  $49 \pm 20\%$  (range 27% to 92%). In this study, patients applied approximately 3 mg/cm<sup>2</sup> of EUCRISA ointment (dose range was approximately 6 g to 30 g per application) twice daily for 8 days. The lower limit of quantification for the pK assay used to detect presence of crisaborole in plasma was 0.2 ng/mL.

Plasma concentrations were quantifiable in all the patients. The mean  $\pm$  SD maximum plasma concentration ( $C_{max}$ ) and area under the concentration time curve from 0 to 12 hours post dose (AUC<sub>0-12</sub>) for crisaborole on Day 8 were 127  $\pm$  196 ng/mL and 949  $\pm$  1240 ng\*h/mL, respectively (Table 3). Systemic concentrations of crisaborole were at steady state by Day 8. Based on the ratios of AUC<sub>0-12</sub> between Day 8 and Day 1, the mean accumulation factor for crisaborole was 1.9.

The PK of EUCRISA were investigated in 18 subjects 3 months to less than 24 months of age. Excluding outlier values from 5 subjects the mean  $\pm$  SD  $C_{max}$  and  $AUC_{0-12}$  for crisaborole were  $188 \pm 100$  ng/mL and  $1164 \pm 550$  ng·h/mL, respectively.

#### **Distribution:**

Based on an in vitro study, crisaborole is 97% bound to human plasma proteins.

#### Metabolism:

Crisaborole is substantially metabolized into inactive metabolites. The major metabolite 5-(4-cyanophenoxy)-2-hydroxyl benzylalcohol (metabolite 1), is formed via hydrolysis; this metabolite is further metabolized into downstream metabolites, among which 5-(4-

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cyanophenoxy)-2-hydroxyl benzoic acid (metabolite 2), formed via oxidation, is also a major metabolite

Pharmacokinetics of metabolites 1 and 2 were assessed in the PK study described above and the systemic concentrations were at or near steady state by Day 8. Based on the ratios of  $AUC_{0-12}$  between Day 8 and Day 1, the mean accumulation factors for metabolites 1 and 2 were 1.7 and 6.3, respectively.

#### **Elimination:**

Renal excretion of metabolites is the major route of elimination.

## **Special Populations and Conditions**

#### Pediatrics:

A multicenter, open-label maximal use, systemic exposure study with a pK Phase and a non-pK Safety Phase was conducted in children and adolescents with mild to moderate AD. Based on the pK exposures, no difference was seen in pK exposures in patients between the various age cohorts (2 to <18 years old).

A separate PK study evaluated 18 subjects aged 3 months to <2 years of age. Following EUCRISA twice daily administration, large variations in plasma concentrations of crisaborole were observed, with 5 infants exhibiting more than 2-fold higher AUC compared to adults. Sampling methodology errors may have contributed to this result. When excluding values associated with potential sampling errors, results indicated comparable systemic crisaborole exposures in infants and toddlers as observed in older patients at similar treated BSA. However, an actual increase in exposure in infants and toddlers relative to older patients cannot be excluded.

#### **Geriatrics**

PK profiles of crisaborole and its two metabolites have not been assessed in geriatric subjects.

#### Renal Impairment

PK profiles of crisaborole and its two metabolites have not been assessed in patients with renal impairment.

#### Hepatic Impairment

PK profiles of crisaborole and its two metabolites have not been assessed in patients with hepatic impairment.

#### 11 STORAGE, STABILITY AND DISPOSAL

Store below 25°C.

#### 12 SPECIAL HANDLING INSTRUCTIONS

Advise the patient or caregivers to read the Patient Medication Information.

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## Hypersensitivity:

Advise patients to discontinue EUCRISA and seek medical attention immediately if signs or symptoms of hypersensitivity occur (see WARNING and PRECAUTIONS).

## Administration Instructions:

Advise patients or caregivers that EUCRISA is for external use only and is not for ophthalmic, oral, or intravaginal use.

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#### PART II: SCIENTIFIC INFORMATION

## 13 PHARMACEUTICAL INFORMATION

### **Drug Substance**

Proper name: Crisaborole

Chemical name:

4(1-hydroxy-1,3,-dihydrobenzo[c][1,2]oxaborol-5-yloxy)benzonitrile

4-[(1,3-dihydro-1-hydroxy-2,1- benzoxaborol-5-yl)oxy]benzonitrile

5-(4-cyanophenoxy)-1,3-dihydro-1-hydroxy- [2,1]-benzoxaborole

Molecular formula: C<sub>14</sub> H<sub>10</sub> BNO<sub>3</sub>

Molecular mass: 251.1 daltons

Structural formula:

Physicochemical properties: EUCRISA contains 2% crisaborole (w/w) in a petrolatum-based, white to off-white ointment and is for topical use. The active ingredient, crisaborole, is a phosphodiesterase-4 (PDE-4) inhibitor. Crisaborole drug substance is freely soluble in common organic solvents such as isopropyl alcohol and propylene glycol, and insoluble in water.

#### 14 CLINICAL TRIALS

### 14.1 Trial Design and Study Demographics

The efficacy and safety of EUCRISA (crisaborole ointment, 2 %) was evaluated in two pivotal Phase 3, multicenter, randomized, double-blind, parallel-group, vehicle-controlled trials (Studies AN2728-AD-301 and AN2728-AD-302) that were identical in study design (Table 4). Patients with mild to moderate atopic dermatitis were randomized 2:1 to receive EUCRISA or vehicle applied twice daily for 28 days. Based on the amount of drug used in 28 days, the mean drug (EUCRISA Ointment, 2%) used per patient per application was approximately 3 grams in these clinical trials.

A total of 1,522 patients 2 to 79 years of age were enrolled in these studies. Overall, demographic characteristics and baseline disease characteristics were balanced between two treatment groups. The mean age was 12.3 years in the EUCRISA group and 12.1 years in the

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vehicle group. About 62% of patients in both treatment groups were 2 to 11 years of age, and 31-37% of patients were 2 to 6 years of age. At baseline, 38.5% of the patients had an Investigator's Static Global Assessment (ISGA) score of 2 (mild), and 61.5% had an ISGA score of 3 (moderate), in the overall assessment of atopic dermatitis (erythema, induration/papulation, and oozing/crusting) on a severity scale of 0 to 4. The mean treatable percent body surface area at baseline was 18% (range from 5% to 95%). Moderate or severe baseline pruritus was reported in approximately 70% of patients.

In a multicenter, open-label, uncontrolled trial (Study C3291002), 137 pediatric subjects aged 3 months to less than 2 years were treated with EUCRISA twice daily for 4 weeks. The primary endpoint of safety was evaluated through 4 weeks, with support from pharmacokinetic analyses showing similar drug exposure to older subjects.

Table 4 - Summary of Trial Design and Patient Demographics for Pivotal Phase 3 Clinical Trials in Atopic Dermatitis

Study#	Trial design	Dosage, route of administration and duration	Study patients (n)	Mean age (Range) (years) And Gender	Efficacy Endpoints	
AN2728- AD-301	Multi- center, randomized, double- blind,	Crisaborole ointment 2%, topical application twice daily for 28 days	503	12.0 (2-65) Male: 43.5% Female: 56.5%	The primary efficacy endpoint was the proportion of patients at Day 29 who achieved success, defined as an	
	vehicle- controlled	Vehicle ointment topical application twice daily for 28 days	256	12.4 (2-63) Male: 44.1% Female: 55.9%	ISGA grade of Clear (score of 0) or Almost Clear (score of 1) with a 2- grade or greater improvement from	
AN2728- AD-302	Multi- center, randomized, double- blind,	Crisaborole ointment 2%, topical application twice daily for 28 days	513	12.6 (2-79) Male: 45.0% Female: 55.0%	improvement from baseline.  The secondary efficacy endpoints were the proportion of patients at Day 29 with ISGA grade of Clear (score of 0) or Almost Clear (score of 1) and the time to success in ISGA.	
	vehicle- controlled	Vehicle ointment topical application twice daily for 28 days	250	11.8 (2-79) Male: 44.8% Female: 55.2%		
C3291002	Multi- center, open-label, single arm	Crisaborole ointment 2%, topical application twice daily for 28 days	137	1.1 (0.25-1.9) Male: 64.2% Female: 35.8%	Exploratory analysis using key endpoints as in studies AN2728-AD-301 and AN2728-AD-302, noted above.	

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## 14.2 Study Results

In these Phase 3 trials, the primary efficacy endpoint was the proportion of patients at Day 29 who achieved success, defined as an ISGA grade of Clear (score of 0) or Almost Clear (score of 1) with a 2-grade or greater improvement from baseline, comparing EUCRISA-treated patients to vehicle-treated patients. The secondary efficacy endpoints included the proportion of patients at Day 29 with ISGA grade of Clear (score of 0) or Almost Clear (score of 1), and the time to success in ISGA.

The results of the primary efficacy endpoint from two pivotal trials are summarized in Table 5.

Table 5: Results of the Primary and Secondary Efficacy Endpoints in Patients with Mild to Moderate Atopic Dermatitis at Day 29

	AN2728-AD-301		AN2728-AD-302	
	EUCRISA (N=503)	Vehicle (N=256)	EUCRISA (N=513)	Vehicle (N=250)
Primary Efficacy Endpoint Success in ISGA <sup>a</sup>	32.8%	25.4%	31.4%	18.0%
p-value	-value 0.038		<0.001	
Secondary Efficacy Endpoint ISGA Clear (0) or Almost Clear (1) <sup>b</sup>	51.7%	40.6%	48.5%	29.7%
p-value	0.005		<0.001	

<sup>&</sup>lt;sup>a</sup> Defined as an ISGA score of Clear (0) or Almost Clear (1) with a 2-grade or greater improvement from baseline

The results of the primary efficacy endpoint showed that patients treated with EUCRISA (crisaborole ointment, 2 %) had a statistically significant higher rate (32.8% and 31.4%) of success in ISGA at Day 29 when compared with those treated with Vehicle (25.4% and 18.0%) in both pivotal trials, respectively.

Similarly, the results of the secondary efficacy endpoint showed that patients treated with EUCRISA (crisaborole ointment, 2 %) had a statistically significant higher rate (51.7% and 48.5%) of Clear or Almost Clear ISGA scores ratings at Day 29 when compared with those treated with Vehicle (40.6% and 29.7%) in both pivotal trials, respectively. The time to success in ISGA was also statistically significantly earlier in the EUCRISA group than in the vehicle group in both trials.

### C3291002:

The efficacy of EUCRISA in children 3 months to <2 years of age is extrapolated from efficacy in patients aged 2 year and older. The key exploratory efficacy endpoint in Study C3291002 was the proportion of patients who achieved treatment success, defined as an ISGA grade of Clear or Almost Clear with a 2-grade or greater improvement from baseline. The results on

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<sup>&</sup>lt;sup>b</sup> A 2-grade or greater improvement from baseline was not required.

ISGA were comparable to those observed among EUCRISA-treated subjects in Studies AN2728-AD-301 and AN2728-AD-302.

## 14.3 Comparative Bioavailability Studies

Not applicable

#### 15 NON-CLINICAL TOXICOLOGY

#### Carcinogenicity

In an oral carcinogenicity study in Sprague-Dawley rats, oral doses of 30, 100, and 300 mg/kg/day crisaborole were administered to rats once daily for 104 weeks. A drug-related higher incidence of benign granular cell tumors in the uterus with cervix and vagina (combined) was noted in 300 mg/kg/day crisaborole treated female rats (1.5 times the MRHD on an AUC comparison basis). The clinical relevance of this finding is unknown.

In a dermal carcinogenicity study in CD-1 mice, topical doses of 2%, 5% and 7% crisaborole ointment were administered once daily for at least 99 (females) or 104 (males) weeks. No drug-related neoplastic findings were noted at topical doses up to 7% crisaborole ointment (1 times the MRHD on an AUC comparison basis).

#### Genotoxicity

Crisaborole revealed no evidence of mutagenic or clastogenic potential based on the results of two in vitro genotoxicity tests (Ames assay and human lymphocyte chromosomal aberration assay) and one in vivo genotoxicity test (rat micronucleus assay).

#### Reproductive and Developmental Toxicology

Rat and rabbit embryo-fetal development was assessed after oral administration of crisaborole. Crisaborole did not cause adverse effects to the fetus at oral doses up to 300 mg/kg/day in pregnant rats during the period of organogenesis (3 times the MRHD on an area under the curve (AUC) comparison basis). No crisaborole-related fetal malformations were noted after oral treatment with crisaborole in pregnant rats at doses up to 600 mg/kg/day (13 times the MRHD on an AUC comparison basis) during the period of organogenesis. Maternal toxicity was produced at this high dose of 600 mg/kg/day in pregnant rats and was associated with decreased fetal body weight and delayed skeletal ossification. Crisaborole did not cause adverse effects to the fetus at oral doses up to the highest dose tested of 100 mg/kg/day in pregnant rabbits during the period of organogenesis (2 times the MRHD on an AUC comparison basis).

In a prenatal/postnatal development study, pregnant rats were treated with crisaborole at doses of 150, 300, or 600 mg/kg/day by oral gavage during gestation and lactation (from gestation day 7 through day 20 of lactation). Crisaborole did not have any adverse effects on fetal development at doses up to 300 mg/kg/day (3 times the MRHD on an AUC comparison basis). Maternal toxicity was produced at the high dose of 600 mg/kg/day in pregnant rats and was associated with findings of stillbirths, pup mortality, and reduced pup weights.

No effects on fertility were observed in male or female rats that were administered oral doses up

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## READ THIS FOR SAFE AND EFFECTIVE USE OF YOUR MEDICINE PATIENT MEDICATION INFORMATION

## PrEUCRISA TM crisaborole ointment

Read this carefully before you start taking **EUCRISA** and each time you get a refill. This leaflet is a summary and will not tell you everything about this drug. Talk to your healthcare professional about your medical condition and treatment and ask if there is any new information about **EUCRISA**.

#### What is EUCRISA used for?

- EUCRISA is a non-steroid prescription medicine used on the skin to treat mild to moderate eczema (atopic dermatitis).
- EUCRISA is for topical use only. Do not use EUCRISA in your eyes, mouth, or vagina.
- EUCRISA is for adults and children 3 months of age and older.
- It is not known if EUCRISA is safe and effective in children under 3 months of age.

#### **How does EUCRISA work?**

The exact way EUCRISA works is not known. It is thought that it reduces the amount of substances in the body that trigger the rash and itchiness caused by eczema.

## What are the ingredients in EUCRISA?

Medicinal ingredients: Crisaborole.

Non-medicinal ingredients: Butylated hydroxytoluene, edetate calcium disodium, mono- and diglycerides, paraffin, propylene glycol, white petrolatum.

#### **EUCRISA** comes in the following dosage forms:

White to off-white ointment containing 20 mg of crisaborole per gram (2% w/w).

#### Do not use EUCRISA if:

• you or your child are allergic to crisaborole or any of the other ingredients in EUCRISA.

To help avoid side effects and ensure proper use, talk to your healthcare professional before you take EUCRISA. Talk about any health conditions or problems you may have, including if you:

- are pregnant or planning to become pregnant. It is not known if EUCRISA may harm your unborn baby.
- are breast-feeding or plan to breast-feed. It is not known if EUCRISA passes into breast milk. Talk with your healthcare profesional about the best way to feed your baby if you take EUCRISA.

Tell your healthcare professional about all the medicines you take, including any drugs,

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## vitamins, minerals, natural supplements or alternative medicines.

#### **How to take EUCRISA:**

- EUCRISA is usually applied twice daily. Use EUCRISA exactly as your healthcare professional tells you to use it.
- Do not use in your eyes, mouth, or vagina. Topical medicine is for use only on the skin.
- Rinse with water if this medicine gets in you or your child's eyes, mouth, or vagina.
- Wash your hands after applying EUCRISA, unless you are using it to treat eczema on your hands. All caregivers who apply EUCRISA for someone else should wash their hands after applying it.

#### Usual dose:

- Apply a thin layer of EUCRISA to affected areas twice daily.
- Your healthcare professional will tell you how to use EUCRISA based on you or your child's medical condition and response to the medicine.

#### Overdose:

Because EUCRISA is for topical use only, it is unlikely that you or your child will overdose on EUCRISA. If you or your child applies too much EUCRISA, thoroughly wipe it off.

If you think you, or a person you are caring for, have taken too much EUCRISA, contact a healthcare professional, hospital emergency department or regional poison control centre immediately, even if there are no symptoms.

### **Missed Dose:**

If you or your child forget to use EUCRISA as directed, apply it as soon as you remember. Then go back to the regular dosing schedule. Do not apply twice as much the next time you use it.

### What are possible side effects from using EUCRISA?

These are not all the possible side effects you may feel when taking EUCRISA. If you experience any side effects not listed here, contact your healthcare professional.

The most common side effect of EUCRISA is pain on the area where you applied it, such as burning or stinging.

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Serious side effects and what to do about them				
	Talk to your healt	Stop taking drug		
Symptom / effect	Only if severe	In all cases	and get immediate medical help	
VERY COMMON				
Application site pain:	X			
such as burning or stinging.				
RARE				
Allergic reactions: EUCRISA				
may cause allergic reactions at				
or near the application site.			X	
These can be serious and may				
include hives, itching, swelling,				
and redness.				

If you have a troublesome symptom or side effect that is not listed here or becomes bad enough to interfere with your daily activities, talk to your healthcare professional.

#### **Reporting Side Effects**

You can report any suspected side effects associated with the use of health products to Health Canada by:

- Visiting the Web page on Adverse Reaction Reporting
   (https://www.canada.ca/en/health-canada/services/drugs-health-products/medeffect canada/adverse-reaction-reporting.html) for information on how to report online, by
   mail or by fax; or
- Calling toll-free at 1-866-234-2345.

*NOTE:* Contact your health professional if you need information about how to manage your side effects. The Canada Vigilance Program does not provide medical advice.

### **Storage:**

Store below 25°C.

Keep out of reach and sight of children.

#### If you want more information about EUCRISA:

- Talk to your healthcare professional
- Find the full product monograph that is prepared for healthcare professionals and includes this Patient Medication Information by visiting the Health Canada website (https://health-products.canada.ca/dpd-bdpp/index-eng.jsp); the manufacturer's website http://www.Pfizer.ca, or by calling 1-800-463-6001.

This leaflet was prepared by Pfizer Canada ULC. Last revised May 18, 2021

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