

US EPA ARCHIVE DOCUMENT

3

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 1 of 13

I



OPP OFFICIAL RECORD
HEALTH EFFECTS DIVISION
SCIENTIFIC DATA REVIEWS
EPA SERIES 361
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

**OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES**

MEMORANDUM

DATE: 5/5/2005

SUBJECT: Boscalid: Chronic Dietary Exposure Assessment for the Section 18 Emergency Exemption Request for the use on Tangerines in California

PC Code: 128008
DP Barcode: D316141

REVIEWER: Douglas Dotson, Chemist *D. Dotson*
Registration Action Branch 2
Health Effects Division (7509C)

THROUGH: Mohsen Sahafeyan, Chemist *Mohsen Sahafeyan*
Sherrie Kinard, Chemist
Dietary Exposure Science Advisory Council
Health Effects Division (7509C)

and

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TO: Douglas Dotson, Chemist
RAB2/Health Effects Division (7509C)

Executive Summary

A chronic dietary risk assessment was conducted using the Dietary Exposure Evaluation Model (DEEM-FCID, Version 1.30), which uses food consumption data from the USDA's Continuing Surveys of Food Intakes by Individuals (CSFII) from 1994-1996 and 1998. The analysis was performed to support a Section 18 emergency exemption request for a tolerance for residues of boscalid on tangerines. The request was made by the California Department of Pesticide Regulation.

1

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 2 of 13

Chronic Dietary Exposure Results and Characterization

The chronic dietary exposure analysis was based on tolerance level residues and 100% crop treated assumptions. DEEM (Version 7.81) default processing factors were used for some commodities. As the general U.S. population and all population subgroups had risk estimates that were below HED's level of concern (i.e., 100% of the chronic population adjusted dose (cPAD)) it was not necessary to make further refinements to the analysis. As such, this analysis is a very conservative one. The cPAD value for the most highly exposed population subgroup (Children 1-2 years) is 26%, and that for the general U.S. population is 7%.

I. Introduction

Dietary risk assessment incorporates both exposure and toxicity of a given pesticide. For acute and chronic assessments, the risk is expressed as a percentage of a maximum acceptable dose (i.e., the dose which HED has concluded will result in no unreasonable adverse health effects). This dose is referred to as the population adjusted dose (PAD). The PAD is equivalent to the Reference Dose (RfD) divided by the special FQPA Safety Factor.

For acute and non-cancer chronic exposures, HED is concerned when estimated dietary risk exceeds 100% of the PAD. HED is generally concerned when estimated cancer risk exceeds one in one million (i.e., the risk exceeds 1×10^{-6}). References which discuss the acute and chronic risk assessments in more detail are available on the EPA/pesticides web site: "Available Information on Assessing Exposure from Pesticides, A User's Guide," 6/21/2000, web link: <http://www.epa.gov/fedrgstr/EPA-PEST/2000/July/Day-12/6061.pdf>; or see SOP 99.6 (8/20/99).

The most recent dietary risk assessment for boscalid was conducted by Douglas Dotson (2/10/04, D295907).

II. Residue Information

The first tolerances for boscalid were established in 40CFR §180.589 on July 30, 2003. These tolerances include those for primary crops, rotational crops, and livestock commodities. Additional tolerances were subsequently granted for pome fruit (PP#2F6434), hops (PP#2F6434), and soybeans (PP#3F6580). The tolerances for these commodities are: pome fruit (3.0 ppm), soybean seed (0.10 ppm), and hops (35 ppm). The recommended tolerance for the current Section 18 emergency exemption for the use of boscalid on tangerines in California is 2.0 ppm. In target and rotational crops, the residue of concern for both the tolerance expression and risk assessment is parent boscalid. In livestock, the residues of concern for both the tolerance expression and risk assessment are the combined residues of boscalid as well as the free and conjugated hydroxy metabolite (M510F01 and M510F02). Tolerance level residues were used for all commodities. DEEM (Version 7.81) default processing factors (adjustment factor #1) were used for some commodities. Processing factors were used to modify the tolerances in four separate ways. For some commodities processing studies demonstrated that residues of boscalid

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 3 of 13

do not concentrate. For these commodities the raw agricultural commodity (RAC) tolerance was used and adjustment factor #1 (the processing factor) was set to 1.000. For some commodities the processing studies demonstrated that there was a slight concentration of residues upon processing. In these cases, the tolerance for the RAC was adequate to cover residues in processed commodities. Adjustment factor #1 was set to 1.000. For some commodities, residues concentrated enough in the processing studies that separate tolerances were established for the processed commodities. These tolerances were used in the assessment and, again, adjustment factor #1 was set to 1.000. For the other processed commodities, for which data are not available, DEEM (Version 7.81) default processing factors were used. Table 1 below lists the processing factors used for the various processed commodities. One hundred percent crop treated was assumed for all commodities in this assessment.

| Residues Do Not Concentrate in Processed Commodity | Adj. #1* | Tolerance Level Adequate to Cover Slight Concentration (processing factor) | Adj. #1* | Separate Tolerance Established | Adj. #1* | DEEM (Version 7.81) Default Processing Factor | Adj. #1* |
|--|----------|--|----------|--------------------------------|----------|---|----------|
| Apple Juice | 1.0 | Wheat Germ (1.2x) | 1.0 | Grape - Raisin | 1.0 | Potatoes - Dry (including flour) | 6.5 |
| Plum - Prune | 1.0 | Wheat Bran (1.2x) | 1.0 | Peanut Oil | 1.0 | Onions - Dry | 9.0 |
| Rice Bran | 1.0 | Tomato Paste (1.1x) | 1.0 | | | Tomatoes - Dried | 14.3 |
| Wheat Flour | 1.0 | | | | | Apple - Dried | 8.0 |
| Sunflower Oil | 1.0 | | | | | Pear - Dried | 6.25 |
| Mint Oil | 1.0 | | | | | Apricot - Dried | 6.0 |
| Tomato Puree | 1.0 | | | | | Peach - Dried | 7.0 |
| Tomato Juice | 1.0 | | | | | Beef Meat - Dried | 1.92 |
| Soybean Oil | 1.0 | | | | | Peanut - Butter | 1.89 |
| | | | | | | Tangerines - Juice | 2.3 |

* Adj. #1: Adjustment Factor # 1. The actual processing factor used in the processing factor column in the commodity contribution list (Attachment 1).

A review of the processing studies for the registered commodities (except apples and soybeans) can be found in the residue chemistry summary document that included the first established tolerances for boscalid (Memo, D278385, M. Nelson, 8/15/03). A review of the processing studies for apples and soybeans can be found in the residue chemistry summary document that included those commodities (Memo, D290185, D. Dotson, 2/10/04).

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 4 of 13

III. DEEM-FCID™ Program and Consumption Information

A boscalid chronic dietary exposure assessment was conducted using the Dietary Exposure Evaluation Model software with the Food Commodity Intake Database (DEEM-FCID™, Version 1.30), which incorporates consumption data from USDA's Continuing Surveys of Food Intakes by Individuals (CSFII), 1994-1996 and 1998. The 1994-96, 98 data are based on the reported consumption of more than 20,000 individuals over two non-consecutive survey days. Foods "as consumed" (e.g., apple pie) are linked to EPA-defined food commodities (e.g. apples, peeled fruit - cooked; fresh or N/S; baked; or wheat flour - cooked; fresh or N/S, baked) using publicly available recipe translation files developed jointly by USDA/ARS and EPA. For chronic exposure assessment, consumption data are averaged for the entire U.S. population and within population subgroups, but for acute exposure assessment are retained as individual consumption events. Based on analysis of the 1994-96, 98 CSFII consumption data, which took into account dietary patterns and survey respondents, HED concluded that it is most appropriate to report risk for the following population subgroups: the general U.S. population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, adults 20-49, females 13-49, and adults 50+ years old.

For chronic dietary exposure assessment, an estimate of the residue level in each food or food-form (e.g., orange or orange juice) on the food commodity residue list is multiplied by the average daily consumption estimate for that food/food form. The resulting residue consumption estimate for each food/food form is summed with the residue consumption estimates for all other food/food forms on the commodity residue list to arrive at the total average estimated exposure. Exposure is expressed in mg/kg body weight/day and as a percent of the cPAD. This procedure is performed for each population subgroup.

IV. Toxicological Information

The Health Effects Division's Hazard Identification Assessment Review Committee (HIARC) met on September 5, 2002 and January 23, 2003 to evaluate the toxicology database for boscalid (Report dated 3/7/03, TXR No. 0051613). The findings of the HIARC relative to dietary exposure are summarized in Table 2. No appropriate endpoint was identified for assessing acute exposures, and boscalid was given a carcinogen classification of "Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential." As such, only a chronic dietary analysis is required.

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 5 of 13

| Table 2. Summary of Toxicological Doses and Endpoints for Use in Human Health Dietary Risk Assessment for boscalid (HIARC, 3/7/03, EXR No. 0051613) | | | |
|---|--|---|---|
| Exposure Scenario | Dose Used in Risk Assessment, UF | Special FQPA SF* and Level of Concern for Risk Assessment | Study and Toxicological Effects |
| Acute Dietary | No appropriate endpoint identified | NA | NA |
| Chronic Dietary (All populations) | NOAEL = 21.8 mg/kg/day UF = 100 Chronic RfD = 0.218 mg/kg/day | FQPA SF = 1X cPAD = $\frac{\text{chronic RfD}}{\text{FQPA SF}}$ = 0.218 mg/kg/day | Chronic rat, carcinogenicity rat and 1-year dog studies LOAEL = 57-58 mg/kg/day based on liver and thyroid effects |
| Cancer | Classification: "Suggestive evidence of carcinogenicity, but not sufficient to assess human carcinogenic potential." | | |

V. Results/Discussion

As stated above, for chronic assessments, HED is concerned when dietary risk exceeds 100% of the cPAD. The DEEM-FCID™ analyses estimate the dietary exposure of the U.S. population and various population subgroups. The results reported in Table 3 are for the general U.S. Population, all infants (<1 year old), children 1-2, children 3-5, children 6-12, youth 13-19, females 13-49, adults 20-49, and adults 50+ years.

The analyses summarized in Table 3 are based on tolerance-level residues (in some cases modified by DEEM (Version 7.81) default processing factors), and assume 100% crop treated. Even with these highly conservative assumptions, the risk estimates are below HED's level of concern. The most highly exposed population subgroup is children 1-2 years, which utilizes 26% of the cPAD. The general U.S. population utilizes 7% of the cPAD.

5

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 6 of 13

| Table 3. Summary of Dietary Exposure and Risk for Boscalid | | | | |
|---|---|------------------------------|-----------|--|
| Population Subgroup | Acute Analysis | DEEM: Chronic Analysis | | Cancer Analysis |
| | | Dietary Exposure (mg/kg/day) | % cPAD | |
| General U.S. Population | Not Applicable: No Acute Dietary Endpoint | 0.014631 | 6.7 | Not Applicable: No cancer risk assessment is required |
| All Infants (< 1 year old) | | 0.035116 | 16 | |
| Children 1-2 years old | | 0.056953 | 26 | |
| Children 3-5 years old | | 0.039243 | 18 | |
| Children 6-12 years old | | 0.019212 | 8.8 | |
| Youth 13-19 years old | | 0.010487 | 4.8 | |
| Adults 20-49 years old | | 0.010370 | 4.8 | |
| Adults 50+ years old | | 0.010957 | 5.0 | |
| Females 13-49 years old | | 0.010373 | 4.8 | |

VI. Characterization of Inputs/Outputs

The assumptions made in this assessment are conservative ones and HED is confident that this analysis does not underestimate risk to the general U.S. population or any population subgroup.

VII. Conclusions

Based on highly conservative assumptions, dietary risk estimates to boscalid do not exceed HED's level of concern for the general U.S. population or any population subgroups, including those comprised of infants and children.

VIII. List of Attachments

- Attachment 1: Residue Input File for Chronic Analysis
- Attachment 2: Results of Chronic Dietary Exposure Analysis

cc: D. Dotson

6

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 7 of 13

Attachment 1: Residue Input File for Chronic Analysis

Filename: C:\DEEMFCID\Boscalid\Boscalid18.R98

NOAEL (Chronic): 21.8 mg/kg bw/day

PAD (Chronic): 0.218 mg/kg bw/day

Date created/last modified: 04-21-2005/09:00:38/8

Program ver. 2.03

| EPA Code | Crop Grp | Commodity Name | Def Res (ppm) | Adj. Factors | | Comment |
|----------|----------|----------------------------------|---------------|--------------|-------|---------|
| | | | | #1 | #2 | |
| 01010500 | 1AB | Beet, garden, roots | 1.000000 | 1.000 | 1.000 | |
| 01010501 | 1AB | Beet, garden, roots-babyfood | 1.000000 | 1.000 | 1.000 | |
| 01010520 | 1A | Beet, sugar | 1.000000 | 1.000 | 1.000 | |
| 01010521 | 1A | Beet, sugar-babyfood | 1.000000 | 1.000 | 1.000 | |
| 01010530 | 1A | Beet, sugar, molasses | 1.000000 | 1.000 | 1.000 | |
| 01010531 | 1A | Beet, sugar, molasses-babyfood | 1.000000 | 1.000 | 1.000 | |
| 01010670 | 1AB | Burdock | 0.700000 | 1.000 | 1.000 | |
| 01010780 | 1AB | Carrot | 0.700000 | 1.000 | 1.000 | |
| 01010781 | 1AB | Carrot-babyfood | 0.700000 | 1.000 | 1.000 | |
| 01010790 | 1AB | Carrot, juice | 0.700000 | 1.000 | 1.000 | |
| 01010840 | 1AB | Celeriac | 0.700000 | 1.000 | 1.000 | |
| 01011000 | 1AB | Chicory, roots | 0.700000 | 1.000 | 1.000 | |
| 01011680 | 1AB | Ginseng, dried | 0.700000 | 1.000 | 1.000 | |
| 01011900 | 1AB | Horseradish | 0.700000 | 1.000 | 1.000 | |
| 01012500 | 1AB | Parsley, turnip rooted | 0.700000 | 1.000 | 1.000 | |
| 01012510 | 1AB | Parsnip | 0.700000 | 1.000 | 1.000 | |
| 01012511 | 1AB | Parsnip-babyfood | 0.700000 | 1.000 | 1.000 | |
| 01013140 | 1AB | Radish, roots | 1.000000 | 1.000 | 1.000 | |
| 01013160 | 1AB | Radish, Oriental, roots | 0.700000 | 1.000 | 1.000 | |
| 01013270 | 1AB | Rutabaga | 0.700000 | 1.000 | 1.000 | |
| 01013310 | 1AB | Salsify, roots | 0.700000 | 1.000 | 1.000 | |
| 01013880 | 1AB | Turnip, roots | 1.000000 | 1.000 | 1.000 | |
| 01030150 | 1CD | Arrowroot, flour | 0.050000 | 1.000 | 1.000 | |
| 01030151 | 1CD | Arrowroot, flour-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01030170 | 1CD | Artichoke, Jerusalem | 0.050000 | 1.000 | 1.000 | |
| 01030820 | 1CD | Cassava | 0.050000 | 1.000 | 1.000 | |
| 01030821 | 1CD | Cassava-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01031390 | 1CD | Dasheen, corm | 0.050000 | 1.000 | 1.000 | |
| 01031660 | 1CD | Ginger | 0.050000 | 1.000 | 1.000 | |
| 01031661 | 1CD | Ginger-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01031670 | 1CD | Ginger, dried | 0.050000 | 1.000 | 1.000 | |
| 01032960 | 1C | Potato, chips | 0.050000 | 1.000 | 1.000 | |
| 01032970 | 1C | Potato, dry (granules/ flakes) | 0.050000 | 6.500 | 1.000 | |
| 01032971 | 1C | Potato, dry (granules/ flakes)-b | 0.050000 | 6.500 | 1.000 | |
| 01032980 | 1C | Potato, flour | 0.050000 | 6.500 | 1.000 | |
| 01032981 | 1C | Potato, flour-babyfood | 0.050000 | 6.500 | 1.000 | |
| 01032990 | 1C | Potato, tuber, w/peel | 0.050000 | 1.000 | 1.000 | |
| 01032991 | 1C | Potato, tuber, w/peel-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01033000 | 1C | Potato, tuber, w/o peel | 0.050000 | 1.000 | 1.000 | |
| 01033001 | 1C | Potato, tuber, w/o peel-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01033660 | 1CD | Sweet potato | 0.050000 | 1.000 | 1.000 | |
| 01033661 | 1CD | Sweet potato-babyfood | 0.050000 | 1.000 | 1.000 | |
| 01033710 | 1CD | Tanier, corm | 0.050000 | 1.000 | 1.000 | |
| 01033870 | 1CD | Turmeric | 0.050000 | 1.000 | 1.000 | |
| 01034060 | 1CD | Yam, true | 0.050000 | 1.000 | 1.000 | |
| 01034070 | 1CD | Yam bean | 0.050000 | 1.000 | 1.000 | |
| 02000510 | 2 | Beet, garden, tops | 1.000000 | 1.000 | 1.000 | |
| 02001010 | 2 | Chicory, tops | 1.000000 | 1.000 | 1.000 | |
| 02001400 | 2 | Dasheen, leaves | 1.000000 | 1.000 | 1.000 | |
| 02003150 | 2 | Radish, tops | 1.000000 | 1.000 | 1.000 | |
| 02003170 | 2 | Radish, Oriental, tops | 1.000000 | 1.000 | 1.000 | |
| 02003320 | 2 | Salsify, tops | 1.000000 | 1.000 | 1.000 | |
| 03001640 | 3 | Garlic | 3.000000 | 1.000 | 1.000 | |
| 03001650 | 3 | Garlic, dried | 3.000000 | 1.000 | 1.000 | |
| 03001651 | 3 | Garlic, dried-babyfood | 3.000000 | 1.000 | 1.000 | |
| 03001980 | 3 | Leek | 3.000000 | 1.000 | 1.000 | |
| 03002370 | 3 | Onion, dry bulb | 3.000000 | 1.000 | 1.000 | |
| 03002371 | 3 | Onion, dry bulb-babyfood | 3.000000 | 1.000 | 1.000 | |

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 8 of 13

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|----------|----|----------------------------------|-----------|-------|-------|
| 03002380 | 3 | Onion, dry bulb, dried | 3.000000 | 9.000 | 1.000 |
| 03002381 | 3 | Onion, dry bulb, dried-babyfood | 3.000000 | 9.000 | 1.000 |
| 03002390 | 3 | Onion, green | 3.000000 | 1.000 | 1.000 |
| 03003380 | 3 | Shallot | 3.000000 | 1.000 | 1.000 |
| 04010050 | 4A | Amaranth, leafy | 1.000000 | 1.000 | 1.000 |
| 04010180 | 4A | Arugula | 1.000000 | 1.000 | 1.000 |
| 04011040 | 4A | Chrysanthemum, garland | 1.000000 | 1.000 | 1.000 |
| 04011330 | 4A | Cress, garden | 1.000000 | 1.000 | 1.000 |
| 04011340 | 4A | Cress, upland | 1.000000 | 1.000 | 1.000 |
| 04011380 | 4A | Dandelion, leaves | 1.000000 | 1.000 | 1.000 |
| 04011500 | 4A | Endive | 1.000000 | 1.000 | 1.000 |
| 04012040 | 4A | Lettuce, head | 6.500000 | 1.000 | 1.000 |
| 04012050 | 4A | Lettuce, leaf | 11.000000 | 1.000 | 1.000 |
| 04012480 | 4A | Parsley, leaves | 1.000000 | 1.000 | 1.000 |
| 04013130 | 4A | Radicchio | 1.000000 | 1.000 | 1.000 |
| 04013550 | 4A | Spinach | 1.000000 | 1.000 | 1.000 |
| 04013551 | 4A | Spinach-babyfood | 1.000000 | 1.000 | 1.000 |
| 04020760 | 4B | Cardoon | 1.000000 | 1.000 | 1.000 |
| 04020850 | 4B | Celery | 1.000000 | 1.000 | 1.000 |
| 04020851 | 4B | Celery-babyfood | 1.000000 | 1.000 | 1.000 |
| 04020860 | 4B | Celery, juice | 1.000000 | 1.000 | 1.000 |
| 04020870 | 4B | Celtuce | 1.000000 | 1.000 | 1.000 |
| 04021520 | 4B | Fennel, Florence | 1.000000 | 1.000 | 1.000 |
| 04023220 | 4B | Rhubarb | 1.000000 | 1.000 | 1.000 |
| 04023670 | 4B | Swiss chard | 1.000000 | 1.000 | 1.000 |
| 05010610 | 5A | Broccoli | 3.000000 | 1.000 | 1.000 |
| 05010611 | 5A | Broccoli-babyfood | 3.000000 | 1.000 | 1.000 |
| 05010620 | 5A | Broccoli, Chinese | 3.000000 | 1.000 | 1.000 |
| 05010640 | 5A | Brussels sprouts | 3.000000 | 1.000 | 1.000 |
| 05010690 | 5A | Cabbage | 3.000000 | 1.000 | 1.000 |
| 05010710 | 5A | Cabbage, Chinese, napa | 3.000000 | 1.000 | 1.000 |
| 05010720 | 5A | Cabbage, Chinese, mustard | 3.000000 | 1.000 | 1.000 |
| 05010830 | 5A | Cauliflower | 3.000000 | 1.000 | 1.000 |
| 05011960 | 5A | Kohlrabi | 3.000000 | 1.000 | 1.000 |
| 05020630 | 5B | Broccoli raab | 18.000000 | 1.000 | 1.000 |
| 05020700 | 5B | Cabbage, Chinese, bok choy | 18.000000 | 1.000 | 1.000 |
| 05021170 | 5B | Collards | 18.000000 | 1.000 | 1.000 |
| 05021940 | 5B | Kale | 18.000000 | 1.000 | 1.000 |
| 05022290 | 5B | Mustard greens | 18.000000 | 1.000 | 1.000 |
| 05023180 | 5B | Rape greens | 18.000000 | 1.000 | 1.000 |
| 05023890 | 5B | Turnip, greens | 18.000000 | 1.000 | 1.000 |
| 06003470 | 6 | Soybean, seed | 0.100000 | 1.000 | 1.000 |
| 06003480 | 6 | Soybean, flour | 0.100000 | 1.000 | 1.000 |
| 06003481 | 6 | Soybean, flour-babyfood | 0.100000 | 1.000 | 1.000 |
| 06003490 | 6 | Soybean, soy milk | 0.100000 | 1.000 | 1.000 |
| 06003491 | 6 | Soybean, soy milk-babyfood or in | 0.100000 | 1.000 | 1.000 |
| 06003500 | 6 | Soybean, oil | 0.100000 | 1.000 | 1.000 |
| 06003501 | 6 | Soybean, oil-babyfood | 0.100000 | 1.000 | 1.000 |
| 06010430 | 6A | Bean, snap, succulent | 1.600000 | 1.000 | 1.000 |
| 06010431 | 6A | Bean, snap, succulent-babyfood | 1.600000 | 1.000 | 1.000 |
| 06012570 | 6A | Pea, edible podded, succulent | 1.600000 | 1.000 | 1.000 |
| 06020310 | 6B | Bean, broad, succulent | 0.600000 | 1.000 | 1.000 |
| 06020330 | 6B | Bean, cowpea, succulent | 0.600000 | 1.000 | 1.000 |
| 06020370 | 6B | Bean, lima, succulent | 0.600000 | 1.000 | 1.000 |
| 06022550 | 6B | Pea, succulent | 0.600000 | 1.000 | 1.000 |
| 06022551 | 6B | Pea, succulent-babyfood | 0.600000 | 1.000 | 1.000 |
| 06022590 | 6B | Pea, pigeon, succulent | 0.600000 | 1.000 | 1.000 |
| 06030300 | 6C | Bean, black, seed | 2.500000 | 1.000 | 1.000 |
| 06030320 | 6C | Bean, broad, seed | 2.500000 | 1.000 | 1.000 |
| 06030340 | 6C | Bean, cowpea, seed | 0.100000 | 1.000 | 1.000 |
| 06030350 | 6C | Bean, great northern, seed | 2.500000 | 1.000 | 1.000 |
| 06030360 | 6C | Bean, kidney, seed | 2.500000 | 1.000 | 1.000 |
| 06030380 | 6C | Bean, lima, seed | 2.500000 | 1.000 | 1.000 |
| 06030390 | 6C | Bean, mung, seed | 2.500000 | 1.000 | 1.000 |
| 06030400 | 6C | Bean, navy, seed | 2.500000 | 1.000 | 1.000 |
| 06030410 | 6C | Bean, pink, seed | 2.500000 | 1.000 | 1.000 |
| 06030420 | 6C | Bean, pinto, seed | 2.500000 | 1.000 | 1.000 |
| 06030980 | 6C | Chickpea, seed | 2.500000 | 1.000 | 1.000 |
| 06030981 | 6C | Chickpea, seed-babyfood | 2.500000 | 1.000 | 1.000 |
| 06030990 | 6C | Chickpea, flour | 2.500000 | 1.000 | 1.000 |
| 06031820 | 6C | Guar, seed | 2.500000 | 1.000 | 1.000 |
| 06031821 | 6C | Guar, seed-babyfood | 2.500000 | 1.000 | 1.000 |
| 06032030 | 6C | Lentil, seed | 2.500000 | 1.000 | 1.000 |

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 9 of 13

| | | | | | | |
|----------|----|------------------------------|----------|--------|-------|--------|
| 06032560 | 6C | Pea, dry | 2.500000 | 1.000 | 1.000 | |
| 06032561 | 6C | Pea, dry-babyfood | 2.500000 | 1.000 | 1.000 | |
| 06032580 | 6C | Pea, pigeon, seed | 2.500000 | 1.000 | 1.000 | |
| 08001480 | 8 | Eggplant | 1.200000 | 1.000 | 1.000 | |
| 08002340 | 8 | Okra | 2.200000 | 1.000 | 1.000 | |
| 08002700 | 8 | Pepper, bell | 1.200000 | 1.000 | 1.000 | |
| 08002701 | 8 | Pepper, bell-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08002710 | 8 | Pepper, bell, dried | 1.200000 | 1.000 | 1.000 | |
| 08002711 | 8 | Pepper, bell, dried-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08002720 | 8 | Pepper, nonbell | 1.200000 | 1.000 | 1.000 | |
| 08002721 | 8 | Pepper, nonbell-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08002730 | 8 | Pepper, nonbell, dried | 1.200000 | 1.000 | 1.000 | |
| 08003740 | 8 | Tomatillo | 1.200000 | 1.000 | 1.000 | |
| 08003750 | 8 | Tomato | 1.200000 | 1.000 | 1.000 | |
| 08003751 | 8 | Tomato-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08003760 | 8 | Tomato, paste | 1.200000 | 1.000 | 1.000 | |
| 08003761 | 8 | Tomato, paste-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08003770 | 8 | Tomato, puree | 1.200000 | 1.000 | 1.000 | |
| 08003771 | 8 | Tomato, puree-babyfood | 1.200000 | 1.000 | 1.000 | |
| 08003780 | 8 | Tomato, dried | 1.200000 | 14.300 | 1.000 | |
| 08003781 | 8 | Tomato, dried-babyfood | 1.200000 | 14.300 | 1.000 | |
| 08003790 | 8 | Tomato, juice | 1.200000 | 1.000 | 1.000 | |
| 09010750 | 9A | Cantaloupe | 1.600000 | 1.000 | 1.000 | |
| 09010800 | 9A | Casaba | 1.600000 | 1.000 | 1.000 | |
| 09011870 | 9A | Honeydew melon | 1.600000 | 1.000 | 1.000 | |
| 09013990 | 9A | Watermelon | 1.600000 | 1.000 | 1.000 | |
| 09014000 | 9A | Watermelon, juice | 1.600000 | 1.000 | 1.000 | |
| 09020210 | 9B | Balsam pear | 1.600000 | 1.000 | 1.000 | |
| 09020880 | 9B | Chayote, fruit | 1.600000 | 1.000 | 1.000 | |
| 09021020 | 9B | Chinese waxgourd | 1.600000 | 1.000 | 1.000 | |
| 09021350 | 9B | Cucumber | 0.200000 | 1.000 | 1.000 | |
| 09023080 | 9B | Pumpkin | 1.600000 | 1.000 | 1.000 | |
| 09023090 | 9B | Pumpkin, seed | 1.600000 | 1.000 | 1.000 | |
| 09023560 | 9B | Squash, summer | 1.600000 | 1.000 | 1.000 | |
| 09023561 | 9B | Squash, summer-babyfood | 1.600000 | 1.000 | 1.000 | |
| 09023570 | 9B | Squash, winter | 1.600000 | 1.000 | 1.000 | |
| 09023571 | 9B | Squash, winter-babyfood | 1.600000 | 1.000 | 1.000 | |
| 10003690 | 10 | Tangerine | 2.000000 | 1.000 | 1.000 | 04CA21 |
| 10003700 | 10 | Tangerine, juice | 2.000000 | 2.300 | 1.000 | 04CA21 |
| 11000070 | 11 | Apple, fruit with peel | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000080 | 11 | Apple, peeled fruit | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000081 | 11 | Apple, peeled fruit-babyfood | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000090 | 11 | Apple, dried | 3.000000 | 8.000 | 1.000 | 2F6434 |
| 11000091 | 11 | Apple, dried-babyfood | 3.000000 | 8.000 | 1.000 | 2F6434 |
| 11000100 | 11 | Apple, juice | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000101 | 11 | Apple, juice-babyfood | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000110 | 11 | Apple, sauce | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11000111 | 11 | Apple, sauce-babyfood | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11001290 | 11 | Crabapple | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11002100 | 11 | Loquat | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11002660 | 11 | Pear | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11002661 | 11 | Pear-babyfood | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11002670 | 11 | Pear, dried | 3.000000 | 6.250 | 1.000 | 2F6434 |
| 11002680 | 11 | Pear, juice | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11002681 | 11 | Pear, juice-babyfood | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 11003100 | 11 | Quince | 3.000000 | 1.000 | 1.000 | 2F6434 |
| 12000120 | 12 | Apricot | 1.700000 | 1.000 | 1.000 | |
| 12000121 | 12 | Apricot-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12000130 | 12 | Apricot, dried | 1.700000 | 6.000 | 1.000 | |
| 12000140 | 12 | Apricot, juice | 1.700000 | 1.000 | 1.000 | |
| 12000141 | 12 | Apricot, juice-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12000900 | 12 | Cherry | 1.700000 | 1.000 | 1.000 | |
| 12000901 | 12 | Cherry-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12000910 | 12 | Cherry, juice | 1.700000 | 1.000 | 1.000 | |
| 12000911 | 12 | Cherry, juice-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12002300 | 12 | Nectarine | 1.700000 | 1.000 | 1.000 | |
| 12002600 | 12 | Peach | 1.700000 | 1.000 | 1.000 | |
| 12002601 | 12 | Peach-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12002610 | 12 | Peach, dried | 1.700000 | 7.000 | 1.000 | |
| 12002611 | 12 | Peach, dried-babyfood | 1.700000 | 7.000 | 1.000 | |
| 12002620 | 12 | Peach, juice | 1.700000 | 1.000 | 1.000 | |
| 12002621 | 12 | Peach, juice-babyfood | 1.700000 | 1.000 | 1.000 | |
| 12002850 | 12 | Plum | 1.700000 | 1.000 | 1.000 | |

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 10 of 13

| | | | | | |
|----------|-----|----------------------------------|----------|-------|-------|
| 12002851 | 12 | Plum-babyfood | 1.700000 | 1.000 | 1.000 |
| 12002860 | 12 | Plum, prune, fresh | 1.700000 | 1.000 | 1.000 |
| 12002861 | 12 | Plum, prune, fresh-babyfood | 1.700000 | 1.000 | 1.000 |
| 12002870 | 12 | Plum, prune, dried | 1.700000 | 1.000 | 1.000 |
| 12002871 | 12 | Plum, prune, dried-babyfood | 1.700000 | 1.000 | 1.000 |
| 12002880 | 12 | Plum, prune, juice | 1.700000 | 1.000 | 1.000 |
| 12002881 | 12 | Plum, prune, juice-babyfood | 1.700000 | 1.000 | 1.000 |
| 13010550 | 13A | Blackberry | 3.500000 | 1.000 | 1.000 |
| 13010560 | 13A | Blackberry, juice | 3.500000 | 1.000 | 1.000 |
| 13010561 | 13A | Blackberry, juice-babyfood | 3.500000 | 1.000 | 1.000 |
| 13010580 | 13A | Boysenberry | 3.500000 | 1.000 | 1.000 |
| 13011420 | 13A | Dewberry | 3.500000 | 1.000 | 1.000 |
| 13012080 | 13A | Loganberry | 3.500000 | 1.000 | 1.000 |
| 13013200 | 13A | Raspberry | 3.500000 | 1.000 | 1.000 |
| 13013201 | 13A | Raspberry-babyfood | 3.500000 | 1.000 | 1.000 |
| 13013210 | 13A | Raspberry, juice | 3.500000 | 1.000 | 1.000 |
| 13013211 | 13A | Raspberry, juice-babyfood | 3.500000 | 1.000 | 1.000 |
| 13020570 | 13B | Blueberry | 3.500000 | 1.000 | 1.000 |
| 13020571 | 13B | Blueberry-babyfood | 3.500000 | 1.000 | 1.000 |
| 13021360 | 13B | Currant | 3.500000 | 1.000 | 1.000 |
| 13021370 | 13B | Currant, dried | 3.500000 | 1.000 | 1.000 |
| 13021490 | 13B | Elderberry | 3.500000 | 1.000 | 1.000 |
| 13021740 | 13B | Gooseberry | 3.500000 | 1.000 | 1.000 |
| 13021910 | 13B | Huckleberry | 3.500000 | 1.000 | 1.000 |
| 14000030 | 14 | Almond | 0.700000 | 1.000 | 1.000 |
| 14000031 | 14 | Almond-babyfood | 0.700000 | 1.000 | 1.000 |
| 14000040 | 14 | Almond, oil | 0.700000 | 1.000 | 1.000 |
| 14000041 | 14 | Almond, oil-babyfood | 0.700000 | 1.000 | 1.000 |
| 14000590 | 14 | Brazil nut | 0.700000 | 1.000 | 1.000 |
| 14000680 | 14 | Butternut | 0.700000 | 1.000 | 1.000 |
| 14000810 | 14 | Cashew | 0.700000 | 1.000 | 1.000 |
| 14000920 | 14 | Chestnut | 0.700000 | 1.000 | 1.000 |
| 14001550 | 14 | Filbert | 0.700000 | 1.000 | 1.000 |
| 14001560 | 14 | Filbert, oil | 0.700000 | 1.000 | 1.000 |
| 14001850 | 14 | Hickory nut | 0.700000 | 1.000 | 1.000 |
| 14002130 | 14 | Macadamia nut | 0.700000 | 1.000 | 1.000 |
| 14002690 | 14 | Pecan | 0.700000 | 1.000 | 1.000 |
| 14002820 | 14 | Pistachio | 0.700000 | 1.000 | 1.000 |
| 14003910 | 14 | Walnut | 0.700000 | 1.000 | 1.000 |
| 15000250 | 15 | Barley, pearled barley | 0.200000 | 1.000 | 1.000 |
| 15000251 | 15 | Barley, pearled barley-babyfood | 0.200000 | 1.000 | 1.000 |
| 15000260 | 15 | Barley, flour | 0.200000 | 1.000 | 1.000 |
| 15000261 | 15 | Barley, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15000270 | 15 | Barley, bran | 0.200000 | 1.000 | 1.000 |
| 15000650 | 15 | Buckwheat | 0.200000 | 1.000 | 1.000 |
| 15000660 | 15 | Buckwheat, flour | 0.200000 | 1.000 | 1.000 |
| 15001200 | 15 | Corn, field, flour | 0.200000 | 1.000 | 1.000 |
| 15001201 | 15 | Corn, field, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15001210 | 15 | Corn, field, meal | 0.200000 | 1.000 | 1.000 |
| 15001211 | 15 | Corn, field, meal-babyfood | 0.200000 | 1.000 | 1.000 |
| 15001220 | 15 | Corn, field, bran | 0.200000 | 1.000 | 1.000 |
| 15001230 | 15 | Corn, field, starch | 0.200000 | 1.000 | 1.000 |
| 15001231 | 15 | Corn, field, starch-babyfood | 0.200000 | 1.000 | 1.000 |
| 15001240 | 15 | Corn, field, syrup | 0.200000 | 1.000 | 1.000 |
| 15001241 | 15 | Corn, field, syrup-babyfood | 0.200000 | 1.000 | 1.000 |
| 15001250 | 15 | Corn, field, oil | 0.200000 | 1.000 | 1.000 |
| 15001251 | 15 | Corn, field, oil-babyfood | 0.200000 | 1.000 | 1.000 |
| 15001260 | 15 | Corn, pop | 0.200000 | 1.000 | 1.000 |
| 15001270 | 15 | Corn, sweet | 0.200000 | 1.000 | 1.000 |
| 15001271 | 15 | Corn, sweet-babyfood | 0.200000 | 1.000 | 1.000 |
| 15002260 | 15 | Millet, grain | 0.200000 | 1.000 | 1.000 |
| 15002310 | 15 | Oat, bran | 0.200000 | 1.000 | 1.000 |
| 15002320 | 15 | Oat, flour | 0.200000 | 1.000 | 1.000 |
| 15002321 | 15 | Oat, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15002330 | 15 | Oat, groats/rolled oats | 0.200000 | 1.000 | 1.000 |
| 15002331 | 15 | Oat, groats/rolled oats-babyfood | 0.200000 | 1.000 | 1.000 |
| 15003230 | 15 | Rice, white | 0.200000 | 1.000 | 1.000 |
| 15003231 | 15 | Rice, white-babyfood | 0.200000 | 1.000 | 1.000 |
| 15003240 | 15 | Rice, brown | 0.200000 | 1.000 | 1.000 |
| 15003241 | 15 | Rice, brown-babyfood | 0.200000 | 1.000 | 1.000 |
| 15003250 | 15 | Rice, flour | 0.200000 | 1.000 | 1.000 |
| 15003251 | 15 | Rice, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15003260 | 15 | Rice, bran | 0.200000 | 1.000 | 1.000 |

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 11 of 13

| | | | | | |
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| 15003261 | 15 | Rice, bran-babyfood | 0.200000 | 1.000 | 1.000 |
| 15003280 | 15 | Rye, grain | 0.200000 | 1.000 | 1.000 |
| 15003290 | 15 | Rye, flour | 0.200000 | 1.000 | 1.000 |
| 15003440 | 15 | Sorghum, grain | 0.200000 | 1.000 | 1.000 |
| 15003450 | 15 | Sorghum, syrup | 0.200000 | 1.000 | 1.000 |
| 15003810 | 15 | Triticale, flour | 0.200000 | 1.000 | 1.000 |
| 15003811 | 15 | Triticale, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15004010 | 15 | Wheat, grain | 0.200000 | 1.000 | 1.000 |
| 15004011 | 15 | Wheat, grain-babyfood | 0.200000 | 1.000 | 1.000 |
| 15004020 | 15 | Wheat, flour | 0.200000 | 1.000 | 1.000 |
| 15004021 | 15 | Wheat, flour-babyfood | 0.200000 | 1.000 | 1.000 |
| 15004030 | 15 | Wheat, germ | 0.200000 | 1.000 | 1.000 |
| 15004040 | 15 | Wheat, bran | 0.200000 | 1.000 | 1.000 |
| 15004050 | 15 | Wild rice | 0.200000 | 1.000 | 1.000 |
| 20001630 | 20 | Flaxseed, oil | 3.500000 | 1.000 | 1.000 |
| 20003190 | 20 | Rapeseed, oil | 5.000000 | 1.000 | 1.000 |
| 20003191 | 20 | Rapeseed, oil-babyfood | 5.000000 | 1.000 | 1.000 |
| 20003640 | 20 | Sunflower, seed | 0.600000 | 1.000 | 1.000 |
| 20003650 | 20 | Sunflower, oil | 0.600000 | 1.000 | 1.000 |
| 20003651 | 20 | Sunflower, oil-babyfood | 0.600000 | 1.000 | 1.000 |
| 21000440 | M | Beef, meat | 0.100000 | 1.000 | 1.000 |
| 21000441 | M | Beef, meat-babyfood | 0.100000 | 1.000 | 1.000 |
| 21000450 | M | Beef, meat, dried | 0.100000 | 1.920 | 1.000 |
| 21000460 | M | Beef, meat byproducts | 0.350000 | 1.000 | 1.000 |
| 21000461 | M | Beef, meat byproducts-babyfood | 0.350000 | 1.000 | 1.000 |
| 21000470 | M | Beef, fat | 0.300000 | 1.000 | 1.000 |
| 21000471 | M | Beef, fat-babyfood | 0.300000 | 1.000 | 1.000 |
| 21000480 | M | Beef, kidney | 0.350000 | 1.000 | 1.000 |
| 21000490 | M | Beef, liver | 0.350000 | 1.000 | 1.000 |
| 21000491 | M | Beef, liver-babyfood | 0.350000 | 1.000 | 1.000 |
| 23001690 | M | Goat, meat | 0.100000 | 1.000 | 1.000 |
| 23001700 | M | Goat, meat byproducts | 0.350000 | 1.000 | 1.000 |
| 23001710 | M | Goat, fat | 0.300000 | 1.000 | 1.000 |
| 23001720 | M | Goat, kidney | 0.350000 | 1.000 | 1.000 |
| 23001730 | M | Goat, liver | 0.350000 | 1.000 | 1.000 |
| 24001890 | M | Horse, meat | 0.100000 | 1.000 | 1.000 |
| 25002900 | M | Pork, meat | 0.050000 | 1.000 | 1.000 |
| 25002901 | M | Pork, meat-babyfood | 0.050000 | 1.000 | 1.000 |
| 25002910 | M | Pork, skin | 0.100000 | 1.000 | 1.000 |
| 25002920 | M | Pork, meat byproducts | 0.100000 | 1.000 | 1.000 |
| 25002921 | M | Pork, meat byproducts-babyfood | 0.100000 | 1.000 | 1.000 |
| 25002930 | M | Pork, fat | 0.100000 | 1.000 | 1.000 |
| 25002931 | M | Pork, fat-babyfood | 0.100000 | 1.000 | 1.000 |
| 25002940 | M | Pork, kidney | 0.100000 | 1.000 | 1.000 |
| 25002950 | M | Pork, liver | 0.100000 | 1.000 | 1.000 |
| 26003390 | M | Sheep, meat | 0.100000 | 1.000 | 1.000 |
| 26003391 | M | Sheep, meat-babyfood | 0.100000 | 1.000 | 1.000 |
| 26003400 | M | Sheep, meat byproducts | 0.350000 | 1.000 | 1.000 |
| 26003410 | M | Sheep, fat | 0.300000 | 1.000 | 1.000 |
| 26003411 | M | Sheep, fat-babyfood | 0.300000 | 1.000 | 1.000 |
| 26003420 | M | Sheep, kidney | 0.350000 | 1.000 | 1.000 |
| 26003430 | M | Sheep, liver | 0.350000 | 1.000 | 1.000 |
| 27002220 | D | Milk, fat | 0.100000 | 1.000 | 1.000 |
| 27002221 | D | Milk, fat - baby food/infant for | 0.100000 | 1.000 | 1.000 |
| 27012230 | D | Milk, nonfat solids | 0.100000 | 1.000 | 1.000 |
| 27012231 | D | Milk, nonfat solids-baby food/in | 0.100000 | 1.000 | 1.000 |
| 27022240 | D | Milk, water | 0.100000 | 1.000 | 1.000 |
| 27022241 | D | Milk, water-babyfood/infant form | 0.100000 | 1.000 | 1.000 |
| 27032251 | D | Milk, sugar (lactose)-baby food/ | 0.100000 | 1.000 | 1.000 |
| 28002210 | M | Meat, game | 0.100000 | 1.000 | 1.000 |
| 29003120 | M | Rabbit, meat | 0.100000 | 1.000 | 1.000 |
| 40000930 | P | Chicken, meat | 0.050000 | 1.000 | 1.000 |
| 40000931 | P | Chicken, meat-babyfood | 0.050000 | 1.000 | 1.000 |
| 40000940 | P | Chicken, liver | 0.100000 | 1.000 | 1.000 |
| 40000950 | P | Chicken, meat byproducts | 0.100000 | 1.000 | 1.000 |
| 40000951 | P | Chicken, meat byproducts-babyfoo | 0.100000 | 1.000 | 1.000 |
| 40000960 | P | Chicken, fat | 0.050000 | 1.000 | 1.000 |
| 40000961 | P | Chicken, fat-babyfood | 0.050000 | 1.000 | 1.000 |
| 40000970 | P | Chicken, skin | 0.050000 | 1.000 | 1.000 |
| 40000971 | P | Chicken, skin-babyfood | 0.050000 | 1.000 | 1.000 |
| 50003820 | P | Turkey, meat | 0.050000 | 1.000 | 1.000 |
| 50003821 | P | Turkey, meat-babyfood | 0.050000 | 1.000 | 1.000 |
| 50003830 | P | Turkey, liver | 0.100000 | 1.000 | 1.000 |

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 12 of 13

| | | | | | |
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| 50003831 | P | Turkey, liver-babyfood | 0.100000 | 1.000 | 1.000 |
| 50003840 | P | Turkey, meat byproducts | 0.100000 | 1.000 | 1.000 |
| 50003841 | P | Turkey, meat byproducts-babyfood | 0.100000 | 1.000 | 1.000 |
| 50003850 | P | Turkey, fat | 0.050000 | 1.000 | 1.000 |
| 50003851 | P | Turkey, fat-babyfood | 0.050000 | 1.000 | 1.000 |
| 50003860 | P | Turkey, skin | 0.050000 | 1.000 | 1.000 |
| 50003861 | P | Turkey, skin-babyfood | 0.050000 | 1.000 | 1.000 |
| 60003010 | P | Poultry, other, meat | 0.050000 | 1.000 | 1.000 |
| 60003020 | P | Poultry, other, liver | 0.100000 | 1.000 | 1.000 |
| 60003030 | P | Poultry, other, meat byproducts | 0.100000 | 1.000 | 1.000 |
| 60003040 | P | Poultry, other, fat | 0.050000 | 1.000 | 1.000 |
| 60003050 | P | Poultry, other, skin | 0.050000 | 1.000 | 1.000 |
| 70001450 | P | Egg, whole | 0.020000 | 1.000 | 1.000 |
| 70001451 | P | Egg, whole-babyfood | 0.020000 | 1.000 | 1.000 |
| 70001460 | P | Egg, white | 0.020000 | 1.000 | 1.000 |
| 70001461 | P | Egg, white (solids)-babyfood | 0.020000 | 1.000 | 1.000 |
| 70001470 | P | Egg, yolk | 0.020000 | 1.000 | 1.000 |
| 70001471 | P | Egg, yolk-babyfood | 0.020000 | 1.000 | 1.000 |
| 95001750 | O | Grape | 3.500000 | 1.000 | 1.000 |
| 95001760 | O | Grape, juice | 3.500000 | 1.000 | 1.000 |
| 95001761 | O | Grape, juice-babyfood | 3.500000 | 1.000 | 1.000 |
| 95001770 | O | Grape, leaves | 3.500000 | 1.000 | 1.000 |
| 95001780 | O | Grape, raisin | 8.500000 | 1.000 | 1.000 |
| 95001790 | O | Grape, wine and sherry | 3.500000 | 1.000 | 1.000 |
| 95001880 | O | Hop | 35.000000 | 1.000 | 1.000 |
| 95002630 | O | Peanut | 0.050000 | 1.000 | 1.000 |
| 95002640 | O | Peanut, butter | 0.050000 | 1.890 | 1.000 |
| 95002650 | O | Peanut, oil | 0.150000 | 1.000 | 1.000 |
| 95002750 | O | Peppermint | 30.000000 | 1.000 | 1.000 |
| 95002760 | O | Peppermint, oil | 30.000000 | 1.000 | 1.000 |
| 95003520 | O | Spearmint | 30.000000 | 1.000 | 1.000 |
| 95003530 | O | Spearmint, oil | 30.000000 | 1.000 | 2.000 |
| 95003590 | O | Strawberry | 1.200000 | 1.000 | 1.000 |
| 95003591 | O | Strawberry-babyfood | 1.200000 | 1.000 | 1.000 |
| 95003600 | O | Strawberry, juice | 1.200000 | 1.000 | 1.000 |
| 95003601 | O | Strawberry, juice-babyfood | 1.200000 | 1.000 | 1.000 |

2F6434

Boscalid
PC Code: 128008

Dietary Exposure Assessment

DP Barcode: D316141
Page: 13 of 13

Attachment 2: Results of Chronic Dietary Exposure Analysis

DEEM-FCID Chronic analysis for Boscalid (1994-98 data)
Residue file name: C:\DEEMFCID\Boscalid\Boscalid18.R98
NOAEL (Chronic) = 21.8 mg/kg bw/day
Chronic Population Adjusted Dose: 0.218 mg/kg bw/day
Adjustment factor #2 NOT used.
Analysis Date 04-21-2005/09:04:03
Residue file dated: 04-21-2005/09:00:38/8

Total exposure by population subgroup

| Population Subgroup | Total Exposure | |
|-------------------------------------|--------------------|----------------|
| | mg/kg body wt./day | Percent of PAD |
| U.S. Population (total) | 0.014631 | 6.7% |
| U.S. Population (spring season) | 0.014548 | 6.7% |
| U.S. Population (summer season) | 0.015021 | 6.9% |
| U.S. Population (autumn season) | 0.014685 | 6.7% |
| U.S. Population (winter season) | 0.014236 | 6.5% |
| Northeast region | 0.015552 | 7.1% |
| Midwest region | 0.014484 | 6.6% |
| Southern region | 0.013376 | 6.1% |
| Western region | 0.015952 | 7.3% |
| Hispanics | 0.015304 | 7.0% |
| Non-hispanic whites | 0.014220 | 6.5% |
| Non-hispanic blacks | 0.015096 | 6.9% |
| Non-hisp/non-white/non-black | 0.018434 | 8.5% |
| All infants (< 1 year) | 0.035116 | 16.1% |
| Nursing infants | 0.019240 | 8.8% |
| Non-nursing infants | 0.041144 | 18.9% |
| Children 1-6 yrs | 0.043130 | 19.8% |
| Children 7-12 yrs | 0.017781 | 8.2% |
| Females 13-19 (not preg or nursing) | 0.010291 | 4.7% |
| Females 20+ (not preg or nursing) | 0.010606 | 4.9% |
| Females 13-50 yrs | 0.011275 | 5.2% |
| Females 13+ (preg/not nursing) | 0.011655 | 5.3% |
| Females 13+ (nursing) | 0.013324 | 6.1% |
| Males 13-19 yrs | 0.010639 | 4.9% |
| Males 20+ yrs | 0.010505 | 4.8% |
| Seniors 55+ | 0.011072 | 5.1% |
| Children 1-2 yrs | 0.056953 | 26.1% |
| Children 3-5 yrs | 0.039243 | 18.0% |
| Children 6-12 yrs | 0.019212 | 8.8% |
| Youth 13-19 yrs | 0.010487 | 4.8% |
| Adults 20-49 yrs | 0.010370 | 4.8% |
| Adults 50+ yrs | 0.010957 | 5.0% |
| Females 13-49 yrs | 0.010373 | 4.8% |
