



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

9-9-96

SEP 9 1996  
SEP - 9 1996

OFFICE OF  
PREVENTION, PESTICIDES, AND  
TOXIC SUBSTANCES

**MEMORANDUM**

**SUBJECT:** Dietary Exposure Analysis for Cyhalothrin in/on Leaf Lettuce and Brassica Crops. PP# 5FO4588.

**FROM:** Brian Steinwand *BS*  
Dietary Risk Evaluation Section  
Science Analysis Branch/HED (7509C)

**Through:** Elizabeth Doyle, Section Head *E. A. Doyle*  
Dietary Risk Evaluation Section  
SAB/Health Effects Division *WJB*

**TO:** Mike Metzger, Chief  
RCAB 7509C

**Action Requested**

Provide a dietary exposure analysis for the use of cyhalothrin in/on leaf lettuce and the brassica crop group. The petition requests, and CBTS recommends that a tolerance of 2.0 ppm be established on leaf lettuce and 0.4 ppm on brassica crops.

Provide a dietary exposure analysis for the use of cyhalothrin in/on alfalfa forage and hay, and poultry fat.

**Discussion:**

CBTS recommends against the establishment of a tolerance on alfalfa forage and hay (See memo, L. Kutney, 8/27/96). As such, the proposed increase in the food additive tolerance (FAT) on poultry fat is not included in this analysis.

There is an existing food handling establishment tolerance (See PP# 9H5577) of 0.01 ppm on the brassica crop group. Thus, for the purposes of this analysis, the petition number and tolerance value were changed to reflect the recommendations made by CBTS.

1/23

### Toxicological Endpoint:

The Reference Dose (RfD) used in the analysis is 0.001 mg/kg bwt/day, based on a NOEL of 0.1 mg/kg bwt/day (LEL of 0.5 mg/kg) from a one year dog feeding study with an uncertainty factor of 100 that demonstrated clinical signs of neurotoxicity (See IRIS). The RfD has been approved by the HED RfD committee (6/16/94). There is no evidence of carcinogenicity in rats and is inconclusive in mice; cyhalothrin is listed as a Group D carcinogen (RfD Peer Review).

### Residue Information

Tolerances for cyhalothrin are published in 40 CFR § 180.438.

### Results

A summary of the residue information considered in this analysis is attached as Table 1. A DRES chronic exposure analysis was performed using anticipated residues and percent crop treated information (where available) to estimate the Theoretical Maximum Residue Contribution (TMRC) and the Anticipated Residue Contribution (ARC) for the general population and 22 subgroups. Summaries of the ARCs and their representations as percentages of the Reference Dose (RfD) are included as Table 2 and 3.

### Chronic Exposure Analysis

Exposure from Existing ARs for cyhalothrin:

<u>Subgroup</u>	<u>Exposure (mg/kg/day)</u>	<u>%RfD</u>
U.S. Population	0.000299	29.8
Non-Nursing Infants (< 1 yr. old)	0.000680	68.0

Proposed new Tolerances on the proposed commodities:

U.S. Population	0.000085	8.5
Non-Nursing Infants (< 1 yr. old)	0.000031	3.0

If the new tolerances are approved:

U.S. Population	0.000384	38.3
Non-Nursing Infants (< 1 yr. old)	0.000711	71.0

## Conclusions

The chronic analysis for cyhalothrin is not a worst case estimate of dietary exposure with some refined residues and correction for percent of the commodities assumed to be treated with cyhalothrin. With refinements, the chronic dietary risk exposure to cyhalothrin does not appear to exceed the Agency's level of concern for any sub-groups (See Table 2).

## Attachments

cc: DRES; Caswell 271F; PM Team G. LaRocca; CBTS (L. Kutney)

TABLE 1

ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 271F

DATE: 09/03/96

PAGE: 1

FOOD CODE	FOOD	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS	RES. VALUE USED IN TAS RUN (ppm)	
								ADI
		1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.		
FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01002AA	BLACKBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01002AA	BLACKBERRIES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01002AA	BLACKBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01003AA	BOYSENBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01004AA	DEWBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
01005AA	LEWNBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
01006AA	RASPBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01006AA	RASPBERRIES	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
01006AA	RASPBERRIES	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
01006AA	RASPBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01006AA	RASPBERRIES	70 RAW-FROZEN	9H5577	P 0.010000	0.010000		100.00	0.010000
01007AA	YOUNGBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
01009AA	BLUEBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01009AA	BLUEBERRIES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01009AA	BLUEBERRIES	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01009AA	BLUEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01010AA	CRANBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01010AA	CRANBERRIES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01010AA	CRANBERRIES	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
01010JA	CRANBERRY-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
01010JA	CRANBERRY-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
01011AA	CURRENTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01011AA	CURRENTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01011AA	CURRENTS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01012AA	ELDERBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01013AA	GOOSEBERRIES	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
01014AA	GRAPES-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01014AA	GRAPES-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01014AA	GRAPES-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
01014DA	GRAPES-RAISINS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
01014DA	GRAPES-RAISINS	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
01014DA	GRAPES-RAISINS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000C		100.00	0.010000
01014JA	GRAPES-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
01014JA	GRAPES-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
01014JA	GRAPES-JUICE	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
01015AA	HUCKLEBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
01016AA	STRAWBERRIES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01016AA	STRAWBERRIES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
01016AA	STRAWBERRIES	70 RAW-FROZEN	9H5577	P 0.010000	0.010000		100.00	0.010000
01024AA	JUNE BERRY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000

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STATUS

DATA GAPS/COMMENTS

REFERENCE DOSES

EFFECTS

STUDY TYPE

CHEMICAL

<p>Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438</p>	<p>1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)</p>	<p>Clinical signs of neuro- toxicity. No evidence of carcinog- enicity in rats; incon- clusive for mice.</p>	<p>ADI UF --&gt;100 OPP RfD= 0.001000 EPA RfD= 0.005000</p>	<p>No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.</p>	<p>WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.</p>
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FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
01025AA	MULBERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
02001AA	CITRUS CITRON	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
02002AA	GRAPEFRUIT-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
02002AB	GRAPEFRUIT-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02002AB	GRAPEFRUIT-PULP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02002JA	GRAPEFRUIT-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02002JA	GRAPEFRUIT-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02003AA	KUMQUATS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02004AA	LEMONS-UNSPEC	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02004AA	LEMONS-UNSPEC	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
02004AB	LEMONS-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02004AB	LEMONS-PULP	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
02004HA	LEMONS-PEEL	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02004HA	LEMONS-PEEL	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02004JA	LEMONS-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
02004JA	LEMONS-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02004JA	LEMONS-JUICE	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
02004JA	LEMONS-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02005AA	LIMES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
02005AB	LIMES-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02005HA	LIMES-PEEL	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02005JA	LIMES-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
02005JA	LIMES-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02005JA	LIMES-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02006AA	ORANGES-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
02006AB	ORANGES-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02006AB	ORANGES-PULP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02006HA	ORANGES-PEEL	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02006HA	ORANGES-PEEL	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
02006JA	ORANGES-PEEL	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
02006JA	ORANGES-PEEL	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02006JA	ORANGES-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
02007AA	TANGLOS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02008AA	TANGERINES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
02008JA	TANGERINE-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
03001AA	ALMONDS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03001AA	ALMONDS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03001AA	ALMONDS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
03002AA	BRAZIL NUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03002AA	BRAZIL NUTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro-toxicity. No evidence of carcinogenicity in rats; inconclusive for mice.	ADI UF -->100 OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
03003AA	CASHEWS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03003AA	CASHEWS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03004AA	CHESTNUTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03005AA	FILBERTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03005AA	FILBERTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03005AA	FILBERTS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
03006AA	HICKORY NUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03007AA	MACADAMIA NUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03008AA	PECANS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03008AA	PECANS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03008AA	PECANS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
03008AA	PECANS	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
03008AA	PECANS	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
03009AA	WALNUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03009AA	WALNUTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03009AA	WALNUTS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
03010AA	BUTTER NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
03011AA	PISTACHIO NUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
03013AA	BEECHNUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
04001AA	APPLES-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04001AA	APPLES-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04001AA	APPLES-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
04001AA	APPLES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
04001DA	APPLES-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04001DA	APPLES-DRIED	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
04001DA	APPLES-DRIED	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
04001JA	APPLES-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
04001JA	APPLES-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
04002AA	CRABAPPLES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
04003AA	PEARS-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04003AA	PEARS-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
04003AA	PEARS-FRESH	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
04003AA	PEARS-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
04003DA	PEARS-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04003DA	PEARS-DRIED	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
04004AA	QUINCES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
05001AA	APRICOTS-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05001AA	APRICOTS-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05001AA	APRICOTS-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
05001DA	APRICOTS-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE: USED IN TAS RUN (ppm)
05001DA	APRICOTS-DRIED	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000C		100.00	0.010000
05002AA	CHERRIES-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05002AA	CHERRIES-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05002AA	CHERRIES-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
05002AA	CHERRIES-FRESH	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
05002DA	CHERRIES-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000C		100.00	0.010000
05002JA	CHERRIES-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
05002JA	CHERRIES-JUICE	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05003AA	NECTARINES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05004AA	PEACHES-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05004AA	PEACHES-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05004AA	PEACHES-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
05004AA	PEACHES-FRESH	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
05004DA	PEACHES-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05004DA	PEACHES-DRIED	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05005AA	PLUMS-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
05005AA	PLUMS-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
05005DA	PLUMS-PRUNES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05005DA	PLUMS-PRUNES	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05005DA	PLUMS-PRUNES	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
05005JA	PRUNE-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
05005JA	PRUNE-JUICE	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000C		100.00	0.010000
06001AA	AVOCADOS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06002AA	BANANAS-UNSPEC	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06002AB	BANANAS-FRESH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
06002DA	BANANAS-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
06002DA	BANANAS-DRIED	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
06003AA	COCONUT-FRESH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06003DA	COCONUT-COPRA	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
06003DA	COCONUT-COPRA	21 COOKED-NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
06003DA	COCONUT-COPRA	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000C		100.00	0.010000
06003DA	COCONUT-COPRA	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000C		100.00	0.010000
06003JA	COCONUT-WATER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06004AA	DATES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06004AA	DATES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06004AA	DATES	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
06005AA	FIGS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06005AA	FIGS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm OMCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
06005AA	FIGS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
06006AA	GUAVA	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06006AA	GUAVA	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06006AA	GUAVA	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
06007AA	MANGOES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06007AA	MANGOES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06008AA	LOQUATS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06009AA	OLIVES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06009AA	OLIVES	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.010000		100.00	0.010000
06009AA	OLIVES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06010AA	PAPAYAS-UNSPEC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06010AB	PAPAYAS-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06010AB	PAPAYAS-PULP	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
06010DA	PAPAYAS-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06010JA	PAPAYAS-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06011AA	PAWPAWS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06012AA	PERSIMMONS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013AA	PINEAPPLE-PULP	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
06013DA	PINEAPPLE-DRIED	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	15 RAW-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06013JA	PINEAPPLE-JUICE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
06014AA	PASSION FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06015AA	POMEGRANATES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06015AA	POMEGRANATES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06016AA	PLANTAINS	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
06016AA	PLANTAINS	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
06017AA	LYCHEES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06017DA	LYCHEE-DRIED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06018AA	KIWI	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06020AA	ACEROLA	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06021AA	GINKGO NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06022AA	MANEY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06023AA	PITANGA	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06024AA	SOURSOP	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06025AA	SUGAR APPLES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro-toxicity. No evidence of carcinogenicity in rats; inconclusive for mice.	ADI UF -->100 OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RfD/PR reviewed 02/12/93 RfD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
06026AA	BREAD FRUIT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
06027AA	BREAD NUTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06029AA	CARAMBOLA	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06030AA	CHERIMOYA	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06031AA	LONGAN FRUIT	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
06033AA	GENIP	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
07001FA	COCOA BUTTER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
07001SA	CHOCOLATE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
07001SA	CHOCOLATE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
07001SA	CHOCOLATE	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
07002AA	COFFEE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
07003AA	TEA	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
07006AA	CHICORY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
08004AA	ANICE	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08006AA	BASIL	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08007AA	CARRAWAY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08008AA	CASSIA	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08011AA	CINNAMON	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08012AA	CLOVE	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08013AA	CORIANDER	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08014AA	CUMIN	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08019AA	GINGER	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08020AA	HOPS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
08022AA	HORSERADISH	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.010000		100.00	0.010000
08023AA	ROSEMARY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08026AA	MARJORAM	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08026AB	OREGANO	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08028AA	MUSTARD SEED	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.010000		100.00	0.010000
08028AA	MUSTARD SEED	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
08029AA	NUTMEG	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08029AB	MACE	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08035AA	SAGE	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08036AA	SAVORY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08038AA	BAY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08042AA	THYME	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08043AA	TURMERIC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08047AA	ALLSPICE	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
08049AA	POPPY	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
10002AA	CANTALOUPE-UNSP	00 NOT SPECIFIED (NO CONSUMPTION)	5E4431	A 0.040000	0.040000		100.00	0.040000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RFD/PR reviewed 02/12/93 RFD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10002AB	CANTALOUPE-PULP	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10002AB	CANTALOUPE-PULP	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10003AA	CASABAS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10003AA	CASABAS	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
10004AA	CRENSHAW	00 NOT SPECIFIED (NO CONSUMPTION)	5E4431	A 0.040000	0.040000		100.00	0.040000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10005AA	HONEYDEW MELONS	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10007AA	PERSION MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
10007AA	PERSION MELONS	00 NOT SPECIFIED (NO CONSUMPTION)	5E4431	A 0.040000	0.040000		100.00	0.040000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10008AA	WATERMELON	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10008AA	WATERMELON	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10008AA	WATERMELON	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	11 RAW-FRESH-PICKLED, CORNED, OR CURED	5E4431	A 0.040000	0.040000		100.00	0.040000
10010AA	CUCUMBERS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10010AA	CUCUMBERS	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10011AA	PUMPKIN	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	5E4431	A 0.040000	0.040000		100.00	0.040000
10011AA	PUMPKIN	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	5E4431	A 0.040000	0.040000		100.00	0.040000
10011AA	PUMPKIN	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10013AA	SQUASH-SUMMER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10013AA	SQUASH-SUMMER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	10 RAW-FRESH OR NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10014AA	SQUASH-WINTER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
10014AA	SQUASH-WINTER	31 COOKED-FRESH OR CANNED	5E4431	A 0.040000	0.040000		100.00	0.040000
10017AA	BITTER MELON	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
10017AA	BITTER MELON	21 COOKED-NFS	5E4431	A 0.040000	0.040000		100.00	0.040000

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CHEMICAL Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	STUDY TYPE 1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D. (Rfd/PR Committee)	EFFECTS Clinical signs of neuro- toxicity. No evidence of carcinog- enicity in rats; incon- clusive for mice.	REFERENCE DOSES ADI UF -->100 Opp Rfd= 0.001000 EPA Rfd= 0.005000	DATA GAPS/COMMENTS No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	STATUS WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET. #	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
10020AA	TOMELGOURD	00 NOT SPECIFIED (NO CONSUMPTION)	5E4431	A 0.040000	0.040000		100.00	0.040000
11001AA	EGPLANT	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11001AA	EGPLANT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11001AA	EGPLANT	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	5E4431	A 0.090000	0.090000		100.00	0.090000
11003AA	PEPPERS, SWEET	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	5E4431	A 0.090000	0.090000		100.00	0.090000
11003AA	PEPPERS, SWEET	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AB	CHILI PEPPERS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AD	PEPPERS-OTHER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AD	PEPPERS-OTHER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
11003AD	PEPPERS-OTHER	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
11005AA	TOMATOES-WHOLE	10 RAW-FRESH OR NFS	1F3952	P 0.100000	0.030000		100.00	0.030000
11005AA	TOMATOES-WHOLE	21 COOKED-NFS	1F3952	P 0.100000	0.030000		100.00	0.030000
11005AA	TOMATOES-WHOLE	31 COOKED-FRESH OR CANNED	1F3952	P 0.100000	0.030000		100.00	0.030000
11005JA	TOMATOES-JUICE	10 RAW-FRESH OR NFS	1F3952	P 0.100000	0.100000		100.00	0.100000
11005JA	TOMATOES-JUICE	21 COOKED-NFS	1F3952	P 0.100000	0.030000		100.00	0.030000
11005TA	TOMATOES-PASTE	22 COOKED-FRESH-BAKED	1F3952	P 0.100000	0.010000		100.00	0.010000
11005TA	TOMATOES-PASTE	31 COOKED-FRESH OR CANNED	1F3952	P 0.100000	0.010000		100.00	0.010000
11005TA	TOMATOES-CATSUP	21 COOKED-NFS	1F3952	P 0.100000	0.007000		100.00	0.007000
11006AA	GROUNDCHERRIES	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13001AA	BEETS-TOPS	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
13001AA	BEETS-TOPS	63 COOKED-FRESH OR FROZEN-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
13002AA	CELERY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13002AA	CELERY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13003AA	CHICORY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13005AA	BROCCOLI	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13005AA	BROCCOLI	31 COOKED-FRESH OR CANNED	5F04588	N 0.400000	0.400000		100.00	0.400000
13005AA	BROCCOLI	63 COOKED-FRESH OR FROZEN-BOILED	5F04588	N 0.400000	0.400000		100.00	0.400000
13006AA	BRUSSEL SPROUTS	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13006AA	BRUSSEL SPROUTS	23 COOKED-FRESH-BOILED	5F04588	N 0.400000	0.400000		100.00	0.400000
13007AA	CABBAGE	10 RAW-FRESH OR NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13007AA	CABBAGE	11 RAW-FRESH-PICKLED, CORNED, OR CURED	5F04588	N 0.400000	0.400000		100.00	0.400000
13007AA	CABBAGE	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13008AA	CAULI FLOWER	10 RAW-FRESH OR NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13008AA	CAULI FLOWER	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13009AA	COLLARDS	51 COOKED-CANNED	5F04588	N 0.400000	0.400000		100.00	0.400000
13009AA	COLLARDS	63 COOKED-FRESH OR FROZEN-BOILED	5F04588	N 0.400000	0.400000		100.00	0.400000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13010AA	CABBAGE-CHINESE	10 RAW-FRESH OR NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13010AA	CABBAGE-CHINESE	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13011AA	KALE	63 COOKED-FRESH OR FROZEN-BOILED	5F04588	N 0.400000	0.400000		100.00	0.400000
13012AA	KOHLRABI	21 COOKED-NFS	5F04588	N 0.400000	0.400000		100.00	0.400000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13013AA	LETTUCE-LEAFY	10 RAW-FRESH OR NFS	5F04588	N 2.000000	2.000000		100.00	2.000000
13014AA	DANDELTON	63 COOKED-FRESH OR FROZEN-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
13015AA	ENDIVE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13015AA	ENDIVE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13016AA	FENNEL	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13017AA	CRESS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13018AA	ARTICHOKE-GLOBE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13020AA	LETTUCE-UNSPEC	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13021AA	MUSTARD GREENS	63 COOKED-FRESH OR FROZEN-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
13022AA	PARSLEY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13022AA	PARSLEY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13023AA	PARSLEY	53 COOKED-CANNED-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
13023AA	RHUBARB	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13023AA	RHUBARB	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13023AA	RHUBARB	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
13023AA	RHUBARB	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
13024AA	SPINACH	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13024AA	SPINACH	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13024AA	SPINACH	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
13025AA	SWISS CHARD	63 COOKED-FRESH OR FROZEN-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13026AA	TURNIPS-TOPS	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
13027AA	WATERCRESS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13027AA	WATERCRESS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13034AA	TARO-GREENS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13039AA	CRESS,UPLAND	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13045AA	LETTUCE-HEAD	10 RAW-FRESH OR NFS	1F3985	P 2.000000	0.400000		100.00	0.400000
13045AA	LETTUCE-HEAD	21 COOKED-NFS	1F3985	P 2.000000	0.400000		100.00	0.400000
13047AA	LAMBSQUARTER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
13048AA	CACTUS PADS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
13049AA	GRAPES-LEAVES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
13999AA	LEAFY ORIENT VEG	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.010000		100.00	0.010000
14001AA	BEETS-ROOTS	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14003AA	CARROTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14003AA	CARROTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14003AA	CARROTS	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
14003AA	CARROTS	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14003AA	CARROTS	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14004AA	CELERIAC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14005AA	CHIVES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14006AA	TARO-ROOT	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14007AA	GARLIC	10 RAW-FRESH OR NFS	2F4100	P 0.100000	0.100000		100.00	0.100000
14007AA	GARLIC	21 COOKED-NFS	2F4100	P 0.020000	0.100000		100.00	0.100000
14007AA	GARLIC	32 COOKED-FRESH OR CANNED-BAKED	2F4100	P 0.020000	0.100000		100.00	0.100000
14009AA	ARTICHOKE-JER	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14010AA	LEEK	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14011AA	ONIONS-DRY-BULB	10 RAW-FRESH OR NFS	2F4100	P 0.100000	0.030000		100.00	0.030000
14011AA	ONIONS-DRY-BULB	21 COOKED-NFS	2F4100	P 0.100000	0.030000		100.00	0.030000
14011AA	ONIONS-DRY-BULB	22 COOKED-FRESH-BAKED	2F4100	P 0.100000	0.030000		100.00	0.030000
14011AA	ONIONS-DRY-BULB	31 COOKED-FRESH OR CANNED	2F4100	P 0.100000	0.030000		100.00	0.030000
14011DA	ONIONS-DRYED	12 RAW-FRESH-DRIED	2F4100	P 0.100000	0.100000		100.00	0.100000
14013AA	POTATO(WH)-WHOLE	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AA	POTATO(WH)-WHOLE	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AA	POTATO(WH)-WHOLE	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AB	POTATO(WH)-UNSP	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AC	POTATO(WH)-PULP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AC	POTATO(WH)-PULP	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AC	POTATO(WH)-PULP	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
14013AC	POTATO(WH)-PULP	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
14013DA	POTATO(WH)-DRY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000C		100.00	0.010000
14013DA	POTATO(WH)-DRY	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000C		100.00	0.010000
14013HA	POTATO(WH)-PEEL	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
14014AB	RADISHES-ROOTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14015AA	RUTABAGAS-ROOTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14015AB	RUTABAGAS-TOPS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14016AA	SALSIFY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS
			ADI	UF		
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg LEL= 0.5000 mg/kg ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	OPP RFD= 0.001000 EPA RFD= 0.005000	-->100	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
14017AA	SHALLOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14018AA	SWEETPOTATOES	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14019AA	TURNIPS-ROOTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14019AA	TURNIPS-ROOTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14021AA	PARSNIPS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14024AA	YAMBEAN, TUBER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14026AA	CASSAVA	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14026AA	CASSAVA	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
14026AB	TAPIOCA	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14026AB	TAPIOCA	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
14028AA	TAUTIA, TANNIER	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14030AA	PARSLEY ROOTS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
14031AA	WATER CHESTNUTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
14031AA	WATER CHESTNUTS	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AA	BEANS-DRY-GRT NO 00	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AB	BEANS-DRY-KIDNEY 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AB	BEANS-DRY-KIDNEY 31	COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AC	BEANS-DRY-LIMA 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AD	BEANS-DRY-NAVY 31	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AE	BEANS-DRY-OTHER 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AE	BEANS-DRY-OTHER 25	COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AF	BEANS-DRY-OTHER 31	COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
15001AF	BEANS-DRY-PINTO 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15002AA	BEANS-SUCC-LIMA 10	RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15002AA	BEANS-SUCC-LIMA 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15003AA	BEANS-SUCC-GREEN 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15003AB	BEANS-SUCC-OTH 10	RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15003AB	BEANS-SUCC-OTH 21	COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15003AC	BEANS-SUCC-WAX	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15004AA	- CORN, POP	21 COOKED-NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
15005AA	CORN, SWEET	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
15005AA	CORN, SWEET	21 COOKED-NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
15005AA	CORN, SWEET	31 COOKED-FRESH OR CANNED	9H5577	P 0.050000	0.010000		100.00	0.010000
15006AA	PEANUTS-WHOLE	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.020000		100.00	0.020000
15006AA	PEANUTS-WHOLE	21 COOKED-NFS	9H5577	P 0.050000	0.020000		100.00	0.020000
15006AA	PEANUTS-WHOLE	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.020000		100.00	0.020000
15007AA	PEAS DRY-GARDEN	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro-toxicity.  No evidence of carcinogenicity in rats; inconclusive for mice.	ADI UF -->100 OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RfD/PR reviewed 02/12/93 RfD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
15007AA	PEAS DRY-GARDEN	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
15009AA	PEAS SUCC-GARDEN	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15009AA	PEAS SUCC-GARDEN	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
15011AA	LENTILES-WHOLE	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
15011AB	LENTILES-SPLIT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15013AA	MUNG BEANS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15013AA	MUNG BEANS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15015AA	OKRA	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15015AA	SUNFLOWER-SEEDS	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
15018AA	SUNFLOWER-SEEDS	10 RAW-FRESH OR NFS	9H5577	P 0.200000	0.030000		100.00	0.030000
15020AA	CAROB	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15020AA	CAROB	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15020AA	CAROB	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
15021AA	ALFALFA SPROUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15022AA	BEANS-DRY-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15022AB	BEANS-SUCC-BROAD	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15023AA	BEANS-DRY-PIGEON	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15026AA	SESAME SEEDS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15026AA	SESAME SEEDS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
15027AA	BEANS-UNSPEC	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15028AA	PINENUTS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15028AA	PINENUTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15029AA	SOYBEAN-SPROUTED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15030AA	BEANS-DRY-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15030AB	BEANS-SUCC-HYAC	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
15031AA	BLKEYE PEAS-DRY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15032AA	BEANS-DRY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
15032AA	BEANS-DRY	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
16002AA	ASPARAGUS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16002AA	ASPARAGUS	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
16003AA	MUSHROOMS	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16003AA	MUSHROOMS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16003AA	MUSHROOMS	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
16003AA	MUSHROOMS	53 COOKED-CANNED-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
16004AA	ONIONS-GREEN	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16004AA	ONIONS-GREEN	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16004AA	ONIONS-GREEN	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
16007AA	POKE GREENS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
16008AA	BAMBOO SHOOTS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24001AA	BARLEY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
24002EA	CORN, GRAIN-ENDO	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	21 COOKED-NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.010000		100.00	0.010000
24002EA	CORN, GRAIN-ENDO	23 COOKED-FRESH-BOILED	9H5577	P 0.050000	0.010000		100.00	0.010000
24002HA	CORN, GRAIN-BRAN	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.050000	0.010000		100.00	0.010000
24002SA	CORN SUGAR	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24002SA	CORN SUGAR	21 COOKED-NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24002SA	CORN SUGAR	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.010000		100.00	0.010000
24003AA	OATS	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24003AA	OATS	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
24003AA	OATS	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
24004AA	RICE-ROUGH	23 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24004AB	RICE-MILLED	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24004AB	RICE-MILLED	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
24004AB	RICE-MILLED	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
24004AB	RICE-MILLED	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
24005AA	RYE-ROUGH	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
24005GA	RYE-GERM	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
24005HA	RYE-FLOUR	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24005HA	RYE-FLOUR	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
24006AA	SORGHUM	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.200000	0.070000		100.00	0.070000
24007AA	WHEAT-ROUGH	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.020000		100.00	0.020000
24007AA	WHEAT-ROUGH	21 COOKED-NFS	9H5577	P 0.050000	0.020000		100.00	0.020000
24007AA	WHEAT-ROUGH	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.020000		100.00	0.020000
24007AA	WHEAT-ROUGH	23 COOKED-FRESH-BOILED	9H5577	P 0.050000	0.020000		100.00	0.020000
24007GA	WHEAT-GERM	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.030000		100.00	0.030000
24007GA	WHEAT-GERM	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.030000		100.00	0.030000
24007HA	WHEAT-BRAN	10 RAW-FRESH OR NFS	9H5577	P 0.200000	0.060000		100.00	0.060000
24007HA	WHEAT-BRAN	21 COOKED-NFS	9H5577	P 2.000000	0.060000		100.00	0.060000
24007HA	WHEAT-BRAN	22 COOKED-FRESH-BAKED	9H5577	P 2.000000	0.060000		100.00	0.060000
24007HA	WHEAT-FLOUR	10 RAW-FRESH OR NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24007HA	WHEAT-FLOUR	21 COOKED-NFS	9H5577	P 0.050000	0.010000		100.00	0.010000
24007HA	WHEAT-FLOUR	22 COOKED-FRESH-BAKED	9H5577	P 0.050000	0.010000		100.00	0.010000
24007HA	WHEAT-FLOUR	25 COOKED-FRESH-FRIED	9H5577	P 0.050000	0.010000		100.00	0.010000
24012AA	MILLET	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
24012AA	MILLET	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25001AA	HONEY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25001AA	HONEY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25001AA	HONEY	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 Opp Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
25002SA	BEEF SUGAR	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25002SA	BEEF SUGAR	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25002SA	BEEF SUGAR	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
25002SA	BEEF SUGAR	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SA	CANE SUGAR	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SA	CANE SUGAR	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SA	CANE SUGAR	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SA	CANE SUGAR	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SB	SUGAR-MOLASSES	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SB	SUGAR-MOLASSES	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SB	SUGAR-MOLASSES	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
25003SB	SUGAR-MOLASSES	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
25004SA	MAPLE SYRUP	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
25004SA	MAPLE SYRUP	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
26001AA	BUCKWHEAT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
26001AA	BUCKWHEAT	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
26001AA	BUCKWHEAT	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
26011AA	GUAR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
270010A	CASTOR BEANS	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
270020A	CORN, GRAIN-OIL	18 PROCESSED OIL	9H5577	P 0.050000	0.010000C		100.00	0.010000
270030A	COTTONSEED-OIL	18 PROCESSED OIL	9H5577	P 0.050000	0.010000		100.00	0.010000
270030A	COTTONSEED-MEAL	18 PROCESSED OIL	9H5577	P 0.050000	0.010000		100.00	0.010000
27004AA	FLAX SEED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
270070A	PEANUTS-OIL	18 PROCESSED OIL	9H5577	P 0.050000	0.020000C		100.00	0.010000
27008AA	SAFFLOWER-SEED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
270080A	SAFFLOWER-OIL	18 PROCESSED OIL	9H5577	P 0.010000	0.010000		100.00	0.010000
270090A	SESAME-OIL	18 PROCESSED OIL	9H5577	P 0.010000	0.010000		100.00	0.010000
270100A	SOYBEANS-OIL	18 PROCESSED OIL	9H5577	P 0.010000	0.005000		100.00	0.005000
270110A	SUNFLOWER-OIL	18 PROCESSED OIL	9H5577	P 0.300000	0.020000		100.00	0.020000
270150A	COCONUT-OIL	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
270150A	COCONUT-OIL	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
270150A	COCONUT-OIL	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
270150A	COCONUT-OIL	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
270150A	COCONUT-OIL	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
270160A	OLIVE OIL	18 PROCESSED OIL	9H5577	P 0.010000	0.010000		100.00	0.010000
27017AA	RAPE SEED	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
270190A	PALM OIL	18 PROCESSED OIL	9H5577	P 0.010000	0.010000		100.00	0.010000
28023AA	SOYBEANS-UNSPEC	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023AB	SOYBEANS-DRY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023AB	SOYBEANS-DRY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000

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CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RfD/PR reviewed 02/12/93 RfD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
28023AB	SOYBEANS-DRY	23 COOKED-FRESH-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023AB	SOYBEANS-DRY	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023AB	SOYBEANS-DRY	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WA	SOY-FL, FULL FAT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WA	SOY-FL, FULL FAT	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WA	SOY-FL, FULL FAT	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WB	SOY-FL, LOW FAT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WC	SOY-FL,DEFAT	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WC	SOY-FL,DEFAT	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WC	SOY-FL,DEFAT	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WC	SOY-FL,DEFAT	51 COOKED-CANNED	9H5577	P 0.010000	0.010000		100.00	0.010000
28023WC	SOY-FL,DEFAT	53 COOKED-CANNED-BOILED	9H5577	P 0.010000	0.010000		100.00	0.010000
28024AB	ORNTL NOLEAF VEG	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28040AA	SEEDS-OTHER	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
28080AA	PEPPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
28080AA	PEPPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000C		100.00	0.010000
28081AA	SPERMINT	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000		100.00	0.010000
280810A	SPERMINT-OIL	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.010000C		100.00	0.010000
43057AA	VINEGAR	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43057AA	VINEGAR	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43058AA	WINE AND SHERRY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43058AA	WINE AND SHERRY	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43059AA	DIST ALCOHOL	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43060AA	GELATIN	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
43060AA	GELATIN	21 COOKED-NFS	9H5577	P 0.010000	0.010000		100.00	0.010000
50000DB	MILK-NON-FAT SOL	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.004000		100.00	0.010000
50000DB	MILK-NON-FAT SOL	21 COOKED-NFS	9H5577	P 0.200000	0.004000		100.00	0.004000
50000DB	MILK-NON-FAT SOL	51 COOKED-CANNED	9H5577	P 0.200000	0.004000		100.00	0.004000
50000FA	MILK-FAT SOLIDS	10 RAW-FRESH OR NFS	9H5577	P 5.000000	0.100000C		100.00	0.100000
50000FA	MILK-FAT SOLIDS	21 COOKED-NFS	9H5577	P 5.000000	0.100000C		100.00	0.100000
50000FA	MILK-FAT SOLIDS	51 COOKED-CANNED	9H5577	P 5.000000	0.100000C		100.00	0.100000
50000SA	MILK SUG (LACT)	21 COOKED-NFS	9H5577	P 0.020000	0.004000		100.00	0.004000
50000SA	MILK SUG (LACT)	51 COOKED-CANNED	9H5577	P 0.020000	0.004000		100.00	0.004000
530018A	BEEF-MEAT BYP	21 COOKED-NFS	9H5577	P 0.200000	0.001000		100.00	0.001000
530018A	BEEF-MEAT BYP	26 COOKED-FRESH-PICKLED,CORNEDED,OR CURED	9H5577	P 0.200000	0.001000		100.00	0.001000
530018B	BEEF-OTH ORGAN	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
530018B	BEEF-OTH ORGAN	51 COOKED-CANNED	6F3318	P 0.200000	0.001000		100.00	0.001000
53001DA	BEEF-DRIED	21 COOKED-NFS	6F3318	P 0.200000	0.000900		100.00	0.000900
53001FA	BEEF-FAT	10 RAW-FRESH OR NFS	6F3318	P 3.000000	0.025000		100.00	0.025000
53001FA	BEEF-FAT	21 COOKED-NFS	6F3318	P 3.000000	0.025000		100.00	0.025000

CHEMICAL Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	STUDY TYPE 1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	EFFECTS Clinical signs of neuro- toxicity. No evidence of carcinog- enicity in rats; incon- clusive for mice.	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
			ADI OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RfD/PR reviewed 02/12/93 RfD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
53001FA	BEEF-FAT	22 COOKED-FRESH-BAKED	6F3318	P 3.000000	0.025000		100.00	0.025000
53001FA	BEEF-FAT	23 COOKED-FRESH-BOILED	6F3318	P 3.000000	0.025000		100.00	0.025000
53001FA	BEEF-FAT	24 COOKED-FRESH-BROILED	6F3318	P 3.000000	0.025000		100.00	0.025000
53001FA	BEEF-FAT	25 COOKED-FRESH-FRIED	6F3318	P 3.000000	0.025000		100.00	0.025000
53001KA	BEEF-KIDNEY	21 COOKED-NFS	6F3318	P 0.200000	0.001400		100.00	0.001400
53001LA	BEEF-LIVER	25 COOKED-FRESH-FRIED	6F3318	P 0.200000	0.000500		100.00	0.000500
53001LA	BEEF-LIVER	31 COOKED-FRESH OR CANNED	6F3318	P 0.200000	0.000900		100.00	0.000900
53001MA	BEEF-LEAN	10 RAW-FRESH OR NFS	6F3318	P 0.200000	0.000900		100.00	0.000900
53001MA	BEEF-LEAN	21 COOKED-NFS	6F3318	P 0.200000	0.000900		100.00	0.000900
53001MA	BEEF-LEAN	22 COOKED-FRESH-BAKED	6F3318	P 0.200000	0.000900		100.00	0.000900
53001MA	BEEF-LEAN	23 COOKED-FRESH-BOILED	6F3318	P 0.200000	0.000900		100.00	0.000900
53001MA	BEEF-LEAN	24 COOKED-FRESH-FRIED	6F3318	P 0.200000	0.000900		100.00	0.000900
53002BA	GOAT-MEAT BYP	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 0.200000	0.001000		100.00	0.001000
53002BB	GOAT-OTH ORGAN	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 0.200000	0.001000		100.00	0.001000
53002FA	GOAT-FAT	23 COOKED-FRESH-BOILED	6F3318	P 3.000000	0.020000		100.00	0.020000
53002FA	GOAT-FAT	25 COOKED-FRESH-FRIED	6F3318	P 3.000000	0.020000		100.00	0.020000
53002KA	GOAT-KIDNEY	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 0.200000	0.001000		100.00	0.001000
53002LA	GOAT-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 0.200000	0.001000		100.00	0.001000
53002MA	GOAT-LEAN	23 COOKED-FRESH-BOILED	6F3318	P 0.200000	0.000300		100.00	0.000300
53002MA	GOAT-LEAN	25 COOKED-FRESH-FRIED	6F3318	P 0.200000	0.000700		100.00	0.000700
53003AA	HORSE	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 3.000000	0.000700		100.00	0.000700
53004AA	RABBIT	21 COOKED-NFS	9H5577	P 0.010000	0.000700		100.00	0.000700
53004AA	RABBIT	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.000700		100.00	0.000700
53005BA	SHEEP-MEAT BYP	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53005BB	SHEEP-OTH ORGAN	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53005FA	SHEEP-FAT	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53005KA	SHEEP-KIDNEY	21 COOKED-NFS	6F3318	P 3.000000	0.020000		100.00	0.020000
53005LA	SHEEP-LIVER	00 NOT SPECIFIED (NO CONSUMPTION)	6F3318	P 0.200000	0.001000		100.00	0.001000
53005MA	SHEEP-LEAN	21 COOKED-NFS	6F3318	P 0.200000	0.000300		100.00	0.000300
53005MA	SHEEP-LEAN	31 COOKED-FRESH OR CANNED	6F3318	P 0.200000	0.000700		100.00	0.000700
53006BA	PORK-MEAT BYP	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53006BB	PORK-OTH ORGAN	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53006BB	PORK-OTH ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F3318	P 0.200000	0.001000		100.00	0.001000
53006FA	PORK-FAT	10 RAW-FRESH OR NFS	6F3318	P 3.000000	0.020000		100.00	0.020000
53006FA	PORK-FAT	21 COOKED-NFS	6F3318	P 3.000000	0.020000		100.00	0.020000
53006FA	PORK-FAT	23 COOKED-FRESH-BOILED	6F3318	P 3.000000	0.020000		100.00	0.020000
53006FA	PORK-FAT	25 COOKED-FRESH-FRIED	6F3318	P 3.000000	0.020000		100.00	0.020000
53006KA	PORK-KIDNEY	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	6F3318	P 3.000000	0.020000		100.00	0.020000
53006LA	PORK-LIVER	21 COOKED-NFS	6F3318	P 0.200000	0.001000		100.00	0.001000
53006LA	PORK-LIVER	21 COOKED-NFS	6F3318	P 0.200000	0.000300		100.00	0.000300



ANTICIPATED RESIDUE INFORMATION FOR CASWELL NUMBER 271F

CHEMICAL	STUDY TYPE	EFFECTS	REFERENCE DOSES	DATA GAPS/COMMENTS	STATUS
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg 0.00 ppm LEL= 0.5000 mg/kg 0.00 ppm ONCO: D (RfD/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	ADI UF -->100 OPP RfD= 0.001000 EPA RfD= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 RfD/PR reviewed 02/12/93 RfD/PR reviewed 06/16/94 On IRIS.

FOOD CODE	FOOD	FOOD FORM	PET.#	TOLERANCE (ppm)	ANTICIPATED RESIDUE (ppm)	AR STATISTIC TYPE	% CROP TREATED	RES. VALUE USED IN TAS RUN (ppm)
55014AB	EGGS-WHITE ONLY	62 COOKED-FRESH OR FROZEN-BAKED	9H5577	P 0.010000	0.000500		100.00	0.000500
55014AB	EGGS-WHITE ONLY	81 COOKED-FROZEN	9H5577	P 0.010000	0.000500		100.00	0.000500
55014AC	EGGS-YOLK ONLY	10 RAW-FRESH OR NFS	9H5577	P 0.010000	0.000500		100.00	0.000500
55014AC	EGGS-YOLK ONLY	21 COOKED-NFS	9H5577	P 0.010000	0.000500		100.00	0.000500
55014AC	EGGS-YOLK ONLY	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.000500		100.00	0.000500
55014AC	EGGS-YOLK ONLY	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.000500		100.00	0.000500
55015BA	CHICKEN-BYP	00 NOT SPECIFIED (NO CONSUMPTION)	9H5577	P 0.010000	0.000070		100.00	0.000070
55015LA	CHICKEN-ORGAN	21 COOKED-NFS	9H5577	P 0.010000	0.000070		100.00	0.000070
55015LA	CHICKEN-ORGAN	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.000070		100.00	0.000070
55015LA	CHICKEN-ORGAN	26 COOKED-FRESH-PICKLED, CORNED, OR CURED	9H5577	P 0.010000	0.000070		100.00	0.000070
55015MA	CHICKEN-W/O SKIN	21 COOKED-NFS	9H5577	P 0.010000	0.000200		100.00	0.000200
55015MA	CHICKEN-W/O SKIN	22 COOKED-FRESH-BAKED	9H5577	P 0.010000	0.000200		100.00	0.000200
55015MA	CHICKEN-W/O SKIN	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.000200		100.00	0.000200
55015MA	CHICKEN-W/O SKIN	31 COOKED-FRESH OR CANNED	9H5577	P 0.010000	0.000200		100.00	0.000200
55015MA	CHICKEN-W/O SKIN	53 COOKED-CANNED-BOILED	9H5577	P 0.010000	0.000200		100.00	0.000200
55015MB	CHICKEN+SKIN	21 COOKED-NFS	9H5577	P 0.010000	0.003000		100.00	0.003000
55015MB	CHICKEN+SKIN	25 COOKED-FRESH-FRIED	9H5577	P 0.010000	0.003000		100.00	0.003000

CHEMICAL INFORMATION	STUDY TYPE	EFFECTS	REFERENCE DOSES		DATA GAPS/COMMENTS	STATUS	
			ADI	UF -->100			
Cyhalothrin/Karate Caswell #271F CAS No. 68085-85-8 A.I. CODE: 128867 CFR No. 180.438	1yr feeding- dog NOEL= 0.1000 mg/kg LEL= 0.5000 mg/kg 0.00 ppm ONCO: D. (Rfd/PR Committee)	Clinical signs of neuro- toxicity.  No evidence of carcinog- enicity in rats; incon- clusive for mice.	OPP Rfd= 0.001000 EPA Rfd= 0.005000	No data gaps. Additional data on mouse study is requested. Chemical is a mixture of several isomers, Karate is two isomers only.	WHO reviewed 1984 HED reviewed 05/29/86 EPA verified 07/15/87 Rfd/PR reviewed 02/12/93 Rfd/PR reviewed 06/16/94 On IRIS.		
POPULATION SUBGROUP							
TOTAL TMRC (MG/KG BODY WEIGHT/DAY)							
CURRENT TMRC*			NEW TMRC**		DIFFERENCE AS PERCENT OF RFD		
CURRENT TMRC*			NEW TMRC**		ARC		
CURRENT TMRC*			NEW TMRC**		%RFD		
U.S. POPULATION - 48 STATES		0.023353	0.023452	2345.176000	9.905700	0.000397	39.69170
U.S. POPULATION - SPRING SEASON		0.022263	0.022361	2236.109500	9.793000	0.000393	39.25830
U.S. POPULATION - SUMMER SEASON		0.023200	0.023300	2330.032400	9.987400	0.000407	40.73940
U.S. POPULATION - FALL SEASON		0.024036	0.024135	2413.500900	9.906700	0.000388	38.83660
U.S. POPULATION - WINTER SEASON		0.023913	0.024011	2401.126300	9.787900	0.000392	39.18520
NORTHEAST REGION		0.025247	0.025341	2534.093500	9.394900	0.000406	40.59040
NORTH CENTRAL REGION		0.023602	0.023684	2368.401100	8.173500	0.000380	37.97090
SOUTHERN REGION		0.020211	0.020321	2032.132900	11.071900	0.000366	36.60120
WESTERN REGION		0.025883	0.025993	2599.254200	10.905200	0.000453	45.32900
HISPANICS		0.028533	0.028582	2858.160600	4.844000	0.000396	39.59340
NON-HISPANIC WHITES		0.023454	0.023546	2354.629400	9.227800	0.000394	39.44000
NON-HISPANIC BLACKS		0.019922	0.020071	2007.073300	14.897700	0.000381	38.05990
NON-HISPANIC OTHERS		0.026237	0.026466	2646.622400	22.946700	0.000555	55.47240
NURSING INFANTS (< 1 YEAR OLD)		0.014061	0.014079	1407.941300	1.876500	0.000260	25.95130
NON-NURSING INFANTS (< 1 YEAR OLD)		0.075927	0.075975	7597.520800	4.808000	0.000728	72.82740
FEMALES (13+ YEARS, PREGNANT)		0.016540	0.016617	1661.677100	7.663600	0.000316	31.63150
FEMALES 13+ YEARS, NURSING		0.022859	0.022963	2296.262800	10.383900	0.000410	40.96250
CHILDREN (1-6 YEARS OLD)		0.062642	0.062761	6276.054900	11.866500	0.000690	69.04190
CHILDREN (7-12 YEARS OLD)		0.040315	0.040425	4042.528500	11.037500	0.000530	53.01460
MALES (13-19 YEARS OLD)		0.026146	0.026220	2621.973200	7.407400	0.000358	35.75810
FEMALES (13-19 YEARS OLD, NOT PREG. OR NURSING)		0.020341	0.020419	2041.889400	7.834800	0.000334	33.42520
MALES (20 YEARS AND OLDER)		0.015088	0.015178	1517.809000	8.989600	0.000319	31.87670
FEMALES (20 YEARS AND OLDER, NOT PREG. OR NURS)		0.013061	0.013169	1316.883500	10.754000	0.000346	34.64640

\*Current TMRC does not include new or pending tolerances.

\*\*New TMRC includes new, pending, and published tolerances.

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TABLE 3

TOLERANCE ASSESSMENT SUMMARY FOR Cyhalothrin/Karate  
USING ANTICIPATED RESIDUES  
CASWELL #271F

DATE: 09/03/96

ANALYSIS FOR POPULATION SUB-GROUP: U.S. POPULATION - 48 STATES

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)  
RESULT IN AN ARC OF: 0.000299 MG/KG/DAY  
THE EXISTING ARC IS EQUIVALENT TO: 29.862 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)  
RESULT IN AN ARC OF: 0.000085 MG/KG/DAY  
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 8.513 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)  
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000384 MG/KG/DAY  
THE NEW ARC WILL OCCUPY 38.375 % OF THE ADI.

OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE  
CURRENT NEW PETITION HAVE AN ARC OF: 0.000013 MG/KG/DAY  
THIS ARC WILL OCCUPY 1.317 % OF THE ADI.

IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE  
CURRENT NEW PETITION) ARE GRANTED  
THE RESULTANT ARC WILL BE: 0.000397 MG/KG/DAY  
THE TOTAL ARC WILL OCCUPY 39.692 % OF THE ADI.

ANALYSIS FOR POPULATION SUB-GROUP: NON-NURSING INFANTS (< 1 YEAR OLD)

EXISTING ANTICIPATED RESIDUES (PUBLISHED ONLY)  
RESULT IN AN ARC OF: 0.000680 MG/KG/DAY  
THE EXISTING ARC IS EQUIVALENT TO: 68.020 % OF THE ADI.

PROPOSED NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)  
RESULT IN AN ARC OF: 0.000031 MG/KG/DAY  
THESE NEW ANTICIPATED RESIDUES WILL OCCUPY: 3.065 % OF THE ADI.

IF THE NEW ANTICIPATED RESIDUES (CURRENT PETITION ONLY)  
ARE APPROVED THE RESULTANT ARC WILL BE: 0.000711 MG/KG/DAY  
THE NEW ARC WILL OCCUPY 71.085 % OF THE ADI.

OTHER PENDING ANTICIPATED RESIDUES EXCLUDING THE  
CURRENT NEW PETITION HAVE AN ARC OF: 0.000017 MG/KG/DAY  
THIS ARC WILL OCCUPY 1.743 % OF THE ADI.

IF ALL PENDING ANTICIPATED RESIDUES (INCLUDING THE  
CURRENT NEW PETITION) ARE GRANTED  
THE RESULTANT ARC WILL BE: 0.000728 MG/KG/DAY  
THE TOTAL ARC WILL OCCUPY 72.827 % OF THE ADI.

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