



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

OPP OFFICIAL RECORD  
HEALTH EFFECTS DIVISION OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES  
SCIENTIFIC DATA REVIEWS  
EPA SERIES 361

June 4, 2009

MEMORANDUM

SUBJECT: Updated Review of Cyphenothrin Incident Reports

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THRU: Mary Manibusan, Branch Chief *Mary Manibusan*  
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TO: Joy Schnackenbeck, CRM  
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BACKGROUND

The OPP Incident Data System (IDS) was consulted for poisoning incident data on the active ingredient cyphenothrin. The purpose of the database search is to identify potential patterns on the extent and severity of the health effects attributed to cyphenothrin exposure. The IDS includes reports of incidents from various sources, including mandatory Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) Section 6 (a) (2) reports from registrants, other federal and state health and environmental agencies and individual consumers. The following databases were not searched for poisoning incident data: the American Association of Poison Control Centers Toxic Exposure Surveillance System (TESS), the California Pesticide Illness Surveillance Program, and the National Institute of Occupational Safety and Health's Sentinel Event Notification System for Occupational Risks (NIOSH SENSOR). The EPA is supplying the following incident report to fulfill our requirement to docket summaries of incident data that were reported to the Agency. This report represents 27 incidents occurring in the United States from 2002 to the present for the single chemical only.

Reports of adverse health effects allegedly due to a specific pesticide exposure (an "incident") are largely self-reported and therefore, generally speaking, neither exposure to a pesticide or reported symptom (or the connection between the two) is validated. However, incident information can be an important feedback loop to the Agency – incidents of severe outcome, or a suggested pattern or trend among less severe incidents can signal the Agency to further investigate a particular chemical or product.

The Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) Section 6(a)(2) includes reports of alleged human health incidents from various sources, including mandatory reports from registrants, other federal and state health and environmental agencies and individual consumers. Since 1992, OPP compiles these reports in an Incident Data System (IDS). Reports submitted to the IDS represent anecdotal reports or allegations only, unless otherwise stated in this report. Typically, OPP does not draw firm conclusions implicating the pesticide is causally associated with the reported health effects. Nevertheless, in some instances if enough cases and/or documentation of exposure and health effect or suggested patterns of exposure and response are indicative of a strong relationship, risk mitigation measures may be suggested.

The evaluation of incident data for cyphenothrin chemicals has reported (*relatively low volume of incident, no moderate or severe health effects that are plausibly related to the pesticide in question, based on toxicological data, sporadic incidents of an undefined or non-specific nature such as that clear trends or patterns cannot be discerned*) only 27 number of incidents, symptoms appear generic and not confirmed to be related to exposure, there is no clear evidence of a trend or exposure pattern. Therefore, at this time, there are no remarkable case reports which suggest a plausible association between a moderate or severe health outcome and exposure to pesticide cyphenothrin nor can we discern any suggestion of a trend or pattern regarding the health effects due to the alleged exposure to pesticide cyphenothrin. The current review of the incident data does not warrant further investigations at this time.

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**IDS Report**

**Chemical: Cyphenothrin**

**Human Incidents**

**129013**

Incident Number	Incident Date	Product Name	Registration Number	City	State	Exposure Type*	Incident Description
014420 069	29-Aug-03	RAID HOUSE AND GARDEN BUG KILLER FORMULA 7-11 OZ	00482200383	EASTERN	AK	HC	Unknown Adult (18-64 years old) Male reported Pain while Breathing.
018463 001	08-Apr-07	SERGEANT'S GOLD F&T S/O FOR DOGS 21-39 LBS	00251700080	PARK HILL	OK	HC	A 93 year old Female rubbed the product into the skin of the dog with her pointer finger on her right hand. Grandmother says she washed her hand right away. She reported Cellulitis, Edema, and Erythema.
018654 001	29-Jun-07	SERGEANT'S GOLD F&T S/O FOR DOGS 9-20LBS	00251700080	AUBURN	MI	HC	A 43 year old Female applied product to dogs. She reported Rash and Dermal Irritation/Pain.
018654 002	30-Jun-07	SERGEANT'S GOLD F&T S/O FOR DOGS 61LBS AND OVER	00251700080	EUSTACE	TX	HC	Unknown Adult (18-64 years old) Female got product in both her eyes after she applied product to her pets. She rinsed her eyes out and reported Ocular Irritation/Pain and Edema/Swelling.
018654 003	02-Jun-07	SERGEANT'S GOLD F&T S/O FOR DOGS 9-20LBS	00251700080	RUTHERFORD	TX	HC	A 67 year old Female after she pet dogs that were treated with the product. She reported Ocular Irritation/Pain.
018654 005	07-Jun-07	SENTRYPRO XFC FLEA AND TICK SQUEEZE-ON FOR DOGS 21-39LBS	00251700080	PORTER	TX	HC	A 46 year old Female applied the product to her 2 dogs and she immediately went to bed following the application. Both dogs became restless during the night. The woman slept with one dog and had her arm resting on the other dog. She reported Bullae/Blisters, Dermal Irritation/Pain, Erythema/Flushed, and Rash.

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Human Incidents

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018783	26-Jul-07	SERGEANT'S GOLD F & T S/O FOR DOGS 9-20LBS	00251700080	DAVISTON	AL	HC	A 46 year old Female states that about one week ago she applied the product to her dog and got some on her hand. She applied a product to her other dog and about 8 hours after this she reported Hives/Welts all over her body.
019296	23-Dec-07	SERGEANT'S GOLD F & T S/O DOR DOGS 21-39 LBS	00251700080	SULLIVAN	WI	HC	A 56 year old Female applied product to dogs about (8) hours ago. The woman reported Dermal Irritation and Tingling on her Face, especially around her Eyes.
019296	23-Dec-07	SERGEANT'S GOLD F & T S/O FOR DOGS 61 LBS AND OVER	00251700080	POLAND	OH	HC	A 46 year old Female was exposed to product when she applied the product to her 2 dogs. Within one hour, the woman reported Bronchopasm, Coughing/Choking, Dyspnea, and Shortness of Breath.
019366	21-Jan-08	SENTRYPRO XFC FLEA AND TICK SQUEEZE-ON FOR DOGS 21-39LBS	00251700080	BEASLEY	TX	HC	The product was applied on family dogs. A 2 year old boy, who has a history of allergies, later played with the dogs and reported Hives/Welts, Pruritus, and a Rash on his face that spread to his Ears and Neck.
019694	05-May-08	SENTRYPRO XFC	00251700080			HC	Unknown Adult (18-64 years old) individual applied the product to his dog and reported Nose Burning.
019753	18-May-08	SENTRYPRO XFC FLEA AND TICK SQUEEZE-ON FOR DOGS	00251700080	GLEN ALLEN	VA	HC	A 54 year old Male states that he applied product to dog. He reported Ocular Irritation/Pain, White Cells in Eye, and Redness/Conjunctivitis.

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**IDS Report****Chemical: Cyphenothrin****129013****Human Incidents**

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019865 002	05-Jun-08	SENTRYPRO XFC FLEA AND TICK SQUEEZE-ON FOR DOGS	00251700080	MOUNT VERNON	IL	HC	A 11 year old Male applied the product to his dog and within (24) hours of the product being applied he reported a Rash on his Face with Swelling around his Eyes.
020016 004	24-May-08	SENTRYPRO XFC FLEA AND TICK SQUEEZE-ON FOR DOGS 40-60 LBS	00251700080	SPRING	TX	HB	A 16 year old Female caller reported Dizziness/Vertigo, Fainting, Excessive Vaginal Bleeding, Severe Headache and a Throat Infection after the product was applied to her dog.
020016 006	09-Jul-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	SPOKANE	WA	HC	A 40 year old Male applied the product to his dog and the next day reported a Rash on his knee.
020104 001	22-Aug-08	SERGEANT'S GOLD F&T S/O FOR DOGS 61LBS AND OVER	00251700080	DIXON	IL	HC	A 55 year old Female applied the product to her dogs and reported Dermal Irritation/Pain, Dizziness/Vertigo and Shortness of Breath.
020104 002	17-Jul-08	SILVER SQUEEZE-ON FOR DOGS 61LBS AND OVER	00251700085	BRACEY	VA	HC	Unknown Adult (18-64 years old) Female applied product to her dog. The woman reported Hives/Welts all over her body, and Oropharyngeal Edema.
020189 001	04-Sep-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	LANCASTER	OH	HC	A 7 year old Female stated she applied the product to her dogs. The dog experienced vocalization and agitation within (18) hrs. She bathed the dog with human shampoo and cleared 15 minutes. Her daughter experienced Bullae/Blisters on the Ears.

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Chemical: Cyphenothrin

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020189 002	09-Sep-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	TROPHYCLUB	TX	HC	A 47 year old Female applied product on her dog three days ago and believes that when she checked fur of dog she accidentally touched product and rubbed it in her Face and Eyes. She reported Tingling, Blurred Vision, and Respiratory Congestion.
020189 004	22-Sep-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	EL PASO	TX	HC	A 57 year old Male product was used on the dog (2) days ago and it was rubbed in with the fingers after it was applied. The patient hands both began to itch over the next 24 hrs and Redness occurred. He reported Bullae/Blisters, Pruritus, and Erythema/Flushed.
020317 004	12-Oct-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080		OH	HC	A 52 year old Female stated that this product was applied to his dog on Sunday and she may have gotten some on her face. She reported Rash, Edema Swelling, Joint Pain/Arthralgia, Myalgia, and Muscle Weakness.
020375 002	10-Nov-08	SERGEANT'S SILVER FT SQUEEZE-ON FOR DOGS >60LB	00251700080		TN	HC	Unknown Adult (18-64 years old) Male applied the product to his dog and a small amount of the product got onto his hands and he may have rubbed his eyes. He reported Ocular Burning Sensation.
020375 003	09-Nov-08	SERGEANT'S GOLD FLEA & TICK SQUEEZE-ON FOR DOGS >60LB	00251700080	HAVEN	MS	HC	Unknown Adult (18-64 years old) Male rubbed the dogs back after he applied the product and then touched his eyes. He rinsed his eyes with water several times and

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020375	17-Nov-08	FLEA & TICK SQUEEZE-ON FOR DOGS	00251700080	HUDSON	MA	HC	reported Ocular Irritation/Pain.
020464	08-Dec-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	TACOMA	WA	HC	Unknown Adult (18-64 years old) Female applied the product to her dog last night. She rubbed her eyes within a couple of hours and reported Ocular Burning.
020464	31-Dec-08	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	WICHITA FALLS	TX	HC	Unknown Adult (18-64 years old) Female applied product to her dog. She later pet her dog and then touched her eyes. She reported Ocular Irritation/Pain.
020583	04-Jan-09	SERGEANT'S GOLD F&T S/O FOR DOGS	00251700080	FORT WORTH	TX	HC	A 72 year old Female applied the product to her dog and then washed her hands well afterwards. She reported Vomiting, Nausea, and Shortness of Breath. A 28 year old Female and her roommate applied the product to their cat. Some of the product got on her hands which she did not wash. She reported Nausea, Tremor, and Dizziness/Vertigo.



13544

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**Chemical Name:** Cyphenothrin

**PC Code:** 129013

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**HED Records Reference Center**

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