# SAT Report

PMN Number: **P-10-0050**
SAT Date: **11/20/2009**
Print Date: **11/26/2014**

**Related cases:** [redacted]

**Concern levels:**

| Type of Concern: | Health | Eco | Comments |
|---|---|---|---|
| Level of Concern: | 1-2 | 1 | |

| Persistence | Bioaccum | Toxicity | Comments |
|---|---|---|---|
| 2 | 1 | 2 | |
| | | Awaiting Human Health Entry | |
| | | Awaiting Human Health Entry | |
| | | Awaiting Human Health Entry | |

**Exposure Based Review:**

**Health:** No
**Ecotox:** No

**Routes of exposure:**

**Health:** Inhalation
**Ecotox:** No releases to water
**Fate:** ;

**Keywords:**

**Keywords:**

**Summary of Assessment:**

**Fate:**

**Fate Summary:** P-10-0050

FATE: Estimations for representative [redacted] MW 280 [redacted]
log Kow = 7.05 (M)
log Koc = 4.07 (E)
log Fish BCF = 1.75 (E)

log Fish BAF = 5.20 (E)
FATE: Estimations for representative [redacted] MW 327 [redacted]
log Kow = 4.49 (E)
log Koc = 3.86 (E)
log Fish BCF = 0.50 (E)
log Fish BAF = 2.66 (E)
FATE: Estimations for representative [redacted] MW 89 [redacted]
log Kow = -0.94 (E)
log Koc = 0.09 (E)
log Fish BCF = 0.50 (E)
log Fish BAF = -0.05 (E)
[redacted]
POTW removal (%) = 50-90 via sorption and biodeg
Time for complete ultimate aerobic biodeg = wk-mo
Sorption to soils/sediments = low - strong
PBT Potential: P2B1
*CEB FATE: Migration to ground water = slow - rapid

**Health:**

**Health Summary:** Not absorbed through the skin (pchem); [redacted] poor absorption from the lung and GI tract; [redacted] good absorption from the lung and GI tract (analog). Concerns based on [redacted] are developmental toxicity (In a postnatal screening assay in mice administered 850 mg/kg/day of [redacted] a 50% reduction in the born alive index was observed); neurotoxicity and respiratory and dermal sensitization. Also concern for [redacted] effects on the lung; irritation to eye, skin (chronic), mucous membranes and lung based on [redacted] properties of the compounds.

**Ecotox:**

| Test Organism | Test Type | Test End Point | Predicted | Measured | Comments |
|---|---|---|---|---|---|
| **fish** | **96-h** | **LC50** | >100 | | |
| **daphnid** | **48-h** | **LC50** | >100 | | |
| **green algal** | **96-h** | **EC50** | >100 | 20 | Marine algae; LOEC=3.2 |
| **fish** | **_** | **chronic value** | >10 | | |
| **daphnid** | **_** | **chronic value** | >10 | | |
| **algal** | **_** | **chronic value** | >10 | | |
| **Sewage Sludge** | **3-h** | **EC50** | **_** | | |

| | | | | | |
|---|---|---|---|---|---|
| **Sewage Sludge** | _ | **Chronic Value** | _ | | |

**Ecotox Values Comments:**

| Factors | Values | Comments |
|---|---|---|
| Assessment Factor | 10 | |
| Concentration of Concern (ppb) | 1000 | |
| SARs | [redacted] | |
| SAR Class | [redacted] | |
| Ecotox Category | | |

**Ecotox Factors Comments:**

**SAT Chair:** L Keifer 564-8916

# Focus Report

New Chemicals Program

PMN Number: **P-10-0050**

| | | | |
|---|---|---|---|
| Focus Date: | 11/30/2009 12:00:00 AM | Report Status: | Completed |
| Consolidated Set: | | | |
| Focus Chair: | Darlene Jones | Contractor: | Paul Sohi |

## I. Notice Information

Submitter: [redacted]

CAS Number: [redacted]

Chemical Name: [redacted]

Use: [redacted]

Other Uses: [redacted]

PV-Max: [redacted]

Manufacture: X

Import:

## II. SAT Results

(1) **Health Rating:** 1-2 **Eco Rating:** 1 **Comments:** ;

**Occupational:** 1D **Non-Occupational:** **Environmental:** NR

(1) **PBT:** 2 1 2 **Comments:**

## III. OTHER FACTORS

**Categories:**

Health Chemical Category:

Ecotox Category: [redacted]

**Related Cases/Regulatory History:**

Health related Cases:

Ecotox Related Cases: Analogs: [redacted].

Regulatory History:

**MSDS/Label Information:**

MSDS: Yes Label: No

General Equipment: The use of local exhaust ventilation is recommended to control emissions near the source. Provide mechanical ventilation of confined spaces. // When handling this product, the use of chemical gauntlets is recommended. When handling this product, the use of overalls, a chemical resistant apron and rubber boots is recommended. A full slicker suit is recommended if gross exposure is possible. Saftey glasses with side shields.

Respirator: When concentrations may exceed the limits given in this section, the use of a half face filter mask or air supplied breathing apparatus is recommended. A suitable filter material depends on the amount and type of chemicals being handled. Consider the use of filter type: Organic vapor cartridge with a Particulate pre-filter.

Health Effects: Flammable. Irritating to eyes and skin. Harmful if swallowed. Contains material that is possibly carcinogenic to humans.

TLV/PEL (PMN or raw material): - see submission p. 22 for [redacted]

**Exposure Based Information:**

| | | | |
|---|---|---|---|
| Exposure Based Review: | Y | Exposure Based Review (Health): | N |
| Exposure Based Review (Eco): | N | Exposure Based (Occupational): | No |
| Exposure Based Review (Non Occupatuional): | | Exposure Based (Environmental): | |

## IV. Summary of SAT Assessment

### Fate:

**Fate Summary:**

P-10-0050
FATE: Estimations for representative [redacted]
log Kow = [redacted] (M)
log Koc = 4.07 (E)
log Fish BCF = 1.75 (E)
log Fish BAF = 5.20 (E)
FATE: Estimations for representative [redacted]
log Kow = 4.49 (E)
log Koc = 3.86 (E)
log Fish BCF = 0.50 (E)
log Fish BAF = 2.66 (E)
FATE: Estimations for representative [redacted]
log Kow = -0.94 (E)
log Koc = 0.09 (E)
log Fish BCF = 0.50 (E)
log Fish BAF = -0.05 (E)
PMN Substance: [redacted]
S = [redacted] e (M)
VP < 1.0E-6 torr at 25 EC (E)
BP > 400 EC (E)
H < 1.00E-8 (E)
POTW removal (%) = 50-90 via sorption and biodeg
Time for complete ultimate aerobic biodeg = wk-mo
Sorption to soils/sediments = low - strong
PBT Potential: P2B1
*CEB FATE: Migration to ground water = slow - rapid

### Health:

**Health Summary:**

Not absorbed through the skin (pchem); [redacted]: poor absorption from the lung and GI tract; [redacted] good absorption from the lung and GI tract (analog). Concerns based on [redacted] are developmental toxicity (In a postnatal screening assay in mice administered 850 mg/kg/day of [redacted], a 50% reduction in the born alive index was observed); neurotoxicity and respiratory and dermal sensitization. Also concern for [redacted] effects on the lung; irritation to eye, skin (chronic), mucous membranes and lung based on [redacted] properties of the compounds.

### Ecotox:

**Ecotox Values:**

| | | |
|---|---|---|
| Fish 96-h LC50: | >100(P) | |
| Daphnid 48-h LC50: | >100(P) | |
| Green algal 96-h EC50: | >100(P) | 20(M) |
| Fish Chronic Value: | >10(P) | |
| Daphnid ChV: | >10(P) | |
| Algal ChV: | >10(P) | |

**Ecotox values comments:**

Predictions are based on SAR-nearest analog analysis for [redacted] SAR chemical class = [redacted] 4 (representative structure); S = [redacted]; pH7; effective concentrations based on 100% active ingredients and nominal concentrations; hardness <180.0 mg/L as CaCO3; and TOC <2.0 mg/L;

This PMN was accompanied by ecotoxicity and fate data. Study results are reviewed in the attached spreadsheet. Conclusions are shown below.

[redacted]

[redacted]

[redacted]

**Ecotox Factors:**

| | |
|---|---|
| Assessment Factor: | 10 |
| Concern Concentration: | 1000 |

## V. Summary of Exposures/Releases

Engineering Summary: P-10-0050

| Exposures/Releases | Release | Release | Release |
|---|---|---|---|
| **Scenario** | [redacted] | [redacted] | [redacted] |
| **Sites** | [redacted] | [redacted] | [redacted] |
| **Media** | [redacted] | [redacted] | [redacted] |
| Descriptor A | Conservative | Conservative | High End |
| Quantity A (kg/site/day) | [redacted] | [redacted] | [redacted] |
| Frequency A (day/year) | [redacted] | [redacted] | [redacted] |
| Descriptor B | | | |
| Quantity B (kg/site/day) | | | |
| Frequency B (day/year) | | | |
| From | [redacted] | [redacted] | [redacted] |
| Workers | | | |
| Exposure Type | | | |

| Engineering Summary: Exposures/Releases | Release | Release | Exposure |
|---|---|---|---|
| **Scenario** | [redacted] | [redacted] | [redacted] |
| **Sites** | [redacted] | [redacted] | [redacted] |
| **Media** | [redacted] | [redacted] | [redacted] |
| Descriptor A | High End | Output 2 | High End |
| Quantity A (kg/site/day) | [redacted] | [redacted] | [redacted] |
| Frequency A (day/year) | [redacted] | [redacted] | [redacted] |
| Descriptor B | | | |
| Quantity B (kg/site/day) | | | |
| Frequency B (day/year) | | | |
| From | [redacted] | [redacted] | [redacted] |
| Workers | | | [redacted] |
| Exposure Type | | | [redacted] |

## V. Summary of Exposures/Releases

Engineering Summary: P-10-0050

| Exposures/Releases | Exposure | Exposure | |
|---|---|---|---|
| **Scenario** | [redacted] | [redacted] | |
| **Sites** | [redacted] | [redacted] | |
| **Media** | [redacted] | [redacted] | |
| Descriptor A | High End | High End | |
| Quantity A (kg/site/day) | [redacted] | [redacted] | |
| Frequency A (day/year) | [redacted] | [redacted] | |
| Descriptor B | | | |
| Quantity B (kg/site/day) | | | |
| Frequency B (day/year) | | | |
| From | [redacted] | [redacted] | |
| Workers | | | |
| Exposure Type | [redacted] | [redacted] | |

## VI. Focus Decision and Rationale

**Regulatory Actions**

Regulatory Decision: PMN Drop Decision Date: 11/30/2009
Type of Decision:

Rationale: P-10-0050 was dropped from further review. Ecotoxicity concerns are low-moderate due to concerns based on m[redacted] are developmental toxicity (In a postnatal screening assay in mice administered 850 mg/kg/day of [redacted], a 50% reduction in the born alive index was observed); neurotoxicity and respiratory and dermal sensitization. Also there is a concern for [redacted] effects on the lung; irritation to eye, skin (chronic), mucous membranes and lung based on [redacted] properties of the compounds. These concerns are mitigated by negligible inhalation exposures and adequate dermal PPE listed in the MSDS. Ecotoxicity concerns are low due to minimal releases to water. One CEB exposure based criteria was met; # of workers exposed = [redacted]. No exposure based testing is desired. This is an EAB drop.

[redacted]

P2 Rec Comments:

**Testing:**

**Final Recommended:**

Health:
Eco:
Fate:
Other: