SAT Report

PMN Number: **P-09-0045**
SAT Date: **11/11/2008**
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
1	1	1 Awaiting Human Health Entry Awaiting Human Health Entry Awaiting Human Health Entry	

Exposure Based Review:

Health: Yes
Ecotox: No

Routes of exposure:

Health: Inhalation, dermal
Ecotox: No releases to water
Fate: ;

Keywords:

Keywords:

Summary of Assessment:

Fate:

Fate Summary: P-09-0045

FATE:
Liquid with MP < -10 EC (M)
log Kow = 1.66 (E);
S = 10 g/L at 25 EC (M)
VP = 1.53E-4 torr at 25 EC (M)
BP = 291 EC (M)
H < 1.00E-8 (E)
log Koc = 1.01 (E)
log Fish BCF = -0.07 (E)
POTW removal (%) = 50-90 via biodeg; OECD 301F(Mano Resp): 117.4%/28d.
Time for complete ultimate aerobic biodeg = wk
Sorption to soils/sediments = low
PBT Potential: P1B1
*CEB FATE: Migration to ground water = slow due to biodeg

Health:

Health Summary: Absorption is good all routes, based on analogs. There is concern for irritation to the eye and skin, based on data in the PMN MSDS, and uncertain concern for developmental toxicity, based on small benzene derivatives.

Ecotox:

Test Organism	Test Type	Test End Point	Predicted	Measured	Comments
fish	**96-h**	**LC50**	210	204	
daphnid	**48-h**	**LC50**	220	336	
green algal	**96-h**	**EC50**	140	171 (growth rate) 83 (yield)	
fish	**_**	**chronic value**	26	49	
daphnid	**_**	**chronic value**	11	333	
algal	**_**	**chronic value**	13	40 g rate & yield	
Sewage Sludge	**3-h**	**EC50**	**_**		
Sewage Sludge	**_**	**Chronic Value**	**_**		

Ecotox Values Comments:

Factors	Values	Comments
Assessment Factor	10	
Concentration of Concern (ppb)	1000	

SARs		
SAR Class		
Ecotox Category		

Ecotox Factors Comments:

SAT Chair: J. Kwiat

Focus Report

New Chemicals Program

PMN Number: **P-09-0045**

Focus Date:	12/01/2008 12:00:00 AM	Report Status:	Completed
Consolidated Set:			
Focus Chair:	Jim Alwood	Contractor:	Paul Sohi

I. Notice Information

Submitter:	[redacted]
CAS Number:	51730-94-0
Chemical Name:	Propanol, 1(or 2)-(methyl-2-phenoxyethoxy)-
Use:	1. Chemical intermediate for producing surfactants [redacted]. 2. Formulation component for drilling fluid (mining aid) [redacted]. [redacted]
Other Uses:	[redacted]
PV-Max:	[redacted]
Manufacture:	X
Import:	

II. SAT Results

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

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

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

III. OTHER FACTORS

Categories:

Health Chemical Category:

Ecotox Category:

Related Cases/Regulatory History:

Health related Cases: [redacted]

Ecotox Related Cases: [redacted] Additional information continued from p. 2: Estimated Data (EPI, MP entered as 20°C): For structure drawn on p.1: BP = 300.8°C; VP = 0.000128 torr/25°C; S-H2O = 15.3 g/L; Log P = 1.66 For minor isomer 1-methyl-2-phenoxyethyl 1-hydroxy-2-methyl ether: BP = 305.5°C; VP = 0.000095 torr/25°C; S-H2O = 15.3 g/L; Log P = 1.66 Estimated Data (NOMO5 with BP = 291°C): VP = 0.00022 torr/25°C

Regulatory History: [redacted]

MSDS/Label Information:

MSDS: Yes Label: No

General Equipment: Use chemical goggles. // Wear clean, body-covering clothing. // Use gloves chemically resistent to this material (examples include butyl rubber, ethyl vinyl alcohol laminate, viton, neoprene, natural rubber, polyvinyl chloride, nitrile/butadiene rubber). // Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

Respirator: For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator: organic vapor cartridge with a particulate pre-filter.

Health Effects: May cause severe eye irritation. May cause slight corneal injury. // Prolonged contact may cause slight skin irritation with local redness. // Prolonged skin contact is unlikely to result in absorption of harmful amounts through skin. // At room temperature, vapors are minimal due to low volatility. Vapors from heated material or mist may be hazardous on single exposure. // Low toxicity if swallowed.

TLV/PEL (PMN or raw material): - none established

Exposure Based Information:

Exposure Based Review: Y

Exposure Based Review (Health): Y

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-09-0045
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Health:

Health Summary:

Absorption is good all routes, based on analogs. There is concern for irritation to the eye and skin, based on data in the PMN MSDS, and uncertain concern for developmental toxicity, based on small benzene derivatives.

Ecotox:

Ecotox Values:

Fish 96-h LC50:	210(P)
Daphnid 48-h LC50:	220(P)
Green algal 96-h EC50:	140(P)
Fish Chronic Value:	26(P)
Daphnid ChV:	11(P)
Algal ChV:	13(P)

Ecotox values comments:

Predictions are based on SARs for neutral organic chemicals; SAR chemical class = alcohol-ether; MW210; liquid with mp = < -10 C (M); log Kow = 1.9 (ClogP), 1.7 (EPI); S = 6800 mg/L to 11 g/L at 20 C (P); pH7; effective concentrations based on 100% active ingredients and mean measured concentrations; DW hardness <150.0 mg/L as CaCO3; and DW TOC <2.0 mg/L;

Ecotox Factors:

Assessment Factor:	10
Concern Concentration:	1000

V. Summary of Exposures/Releases

Engineering Summary: P-09-0045

Exposures/Releases	Release	Release	Release
Scenario	[redacted]	[redacted]	[redacted]
Sites	[redacted]	[redacted]	[redacted]
Media	[redacted]	[redacted]	[redacted]
Descriptor A	Conservative	High End	Output 2
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	Release
Scenario	[redacted]	[redacted]	[redacted]
Sites	[redacted]	[redacted]	[redacted]
Media	[redacted]	[redacted]	[redacted]
Descriptor A	High End	Submitter High End	Conservative
Quantity A (kg/site/day)	[redacted]	[redacted]	[redacted]
Frequency A (day/year)	[redacted]	[redacted]	[redacted]
Descriptor B		High End	
Quantity B (kg/site/day)		[redacted]	
Frequency B (day/year)		[redacted]	
From	[redacted]	[redacted]	[redacted]
Workers			
Exposure Type			

V. Summary of Exposures/Releases

Engineering Summary: P-09-0045

Exposures/Releases	Release	Release	Release
Scenario	[redacted]	[redacted]	[redacted]
Sites	[redacted]	[redacted]	[redacted]
Media	[redacted]	[redacted]	[redacted]
Descriptor A	Output 2	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			
Exposure Type			

Engineering Summary: Exposures/Releases	Exposure	Exposure	Exposure
Scenario	[redacted]	[redacted]	[redacted]
Sites	[redacted]	[redacted]	[redacted]
Media	[redacted]	[redacted]	[redacted]
Descriptor A	High End	High End	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]	[redacted]	[redacted]
Exposure Type	[redacted]	[redacted]	[redacted]

V. Summary of Exposures/Releases

Engineering Summary: P-09-0045

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]		
Workers			
Exposure Type	[redacted]	[redacted]	

VI. Focus Decision and Rationale

Regulatory Actions

Regulatory Decision: PMN Drop Decision Date: 12/01/2008
Type of Decision:

Rationale: P09-0045 was dropped from further review. Concerns for potential risks to human health were low. Inhalation exposures were negligible from manufacturing, processing and use. Ecotoxicity concerns were low, potential risks to the environment were also low. This was an EAB drop.
This case was the same as [redacted] which was going to be regulated under TSCA section 5(e) exposure based category but was later withdrawn. The company addressed exposure based issues by conducting an ready biodegradation study.

Summary of Exposures & Releases:

[redacted]

[redacted]

P2 Rec Comments:

Testing:

Final Recommended:

Health:

Eco:

Fate:

Other: