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Submitting Organization	MONSANTO CO		
Contractor	YOUNGER LABS INC		
Document Title	INITIAL SUBMISSION: TOXICOLOGICAL INVESTIGATION OF: CP 9841 WITH COVER LETTER DATED 080592		
Chemical Category	CP 9841		

8(e)

CAP

(COMPLIANCE AUDIT PROGRAM)

10035

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NOTE: Peter provides data entry in CBITS for the 8(e) CAP Documents.

8EHQ-0892-10035

Monsanto

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ENVIRONMENT, SAFETY & HEALTH

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Attention: Section 8(e) Coordinator (CAP Agreement)

This submission is pursuant to the TSCA Section 8(e) Compliance Audit Program and CAP Agreement #8ECAP-0036.

The information included herein is characterized as follows:

Chemical Identity - 3-(METHYLTHIO)PROPIONALDEHYDE; CP 9841

Chemical CAS No. - 003268493

Information/Study Type - II,B,2,b/Acute Toxicity/Irritation Study

Information/Study Identification - Toxicological Investigations Of: CP 9841 - MHA Aldehyde
YO-77-344

Identification of Reportable Endpoint: MODERATELY HIGH TOXICITY IN AN
INHALATION STUDY

Previous TSCA 8(e) or PMN submissions, if any, for the reference chemical can be found in
Appendix A.

It should be noted that this summary is not all inclusive. Therefore, it may not highlight all
adverse effects that EPA may judge to meet TSCA 8(e) reportability. This submission/report does
not contain confidential business information.

Sincerely,

J. R. Condray
Director, Regulatory Management
(314) 694-8883

YOUNGER LABORATORIES

INCORPORATED

123 CLIFF CAVE ROAD

SAINT LOUIS, MO., 63129

Toxicity Studies on: CP 9841 - MHA ALDEHYDE

To: MONSANTO COMPANY

Lot Number --- CAS 003268493

St. Louis, Missouri

Project No. Y-77-344

Date: January 12th, 1978

ACUTE ORAL TOXICITY		Species Sprague-Dawley Albino Rats					
LD ₅₀	700	Mg/Kg	95% Confidence Limits		600 - 820	Mg/Kg	Slope 7.3
CONDITIONS Single Oral Dose - Undiluted							
	Dosage Mg/Kg	Avg. Initial Weight		Mortalities/Dosed			Time of Mortality
		Male	Female	Male	Female	Combined	
1	501	230	230	0/3	1/2	1/5	Several hours to one day
2	631	230	235	1/2	1/3	2/5	
3	794	230	225	2/3	2/2	4/5	
4	1,000	240	235	2/2	2/3	4/5	
5							
6							
Signs of Intoxication		Reduced appetite and activity (one day in survivors), rapidly increasing weakness, collapse, and death.					
Gross Autopsy Decedents		Lung and liver hyperemia and gastrointestinal inflammation.					
Survivors (14 Days)		Viscera appeared normal.					

ACUTE DERMAL TOXICITY		Species New Zealand Albino Rabbits					
LD ₅₀	> 2,000	Mg/Kg	95% Confidence Limits		----	Mg/Kg	Slope
CONDITIONS Applied Undiluted -- 24-Hours Exposure							
	Dosage Mg/Kg	Initial Weight		Mortalities/Dosed			Time of Mortality
		Male	Female	Male	Female	Combined	
1	1,260	2.0	---	0/1	---	0/1	Two days One day One day
2	2,000	---	2.0	---	0/1	0/1	
3	3,160	2.0	---	1/1	---	1/1	
4	5,010	---	1.9	---	1/1	1/1	
5	7,940	1.8	---	1/1	---	1/1	
6							
Signs of Intoxication		Reduced appetite and activity (three to six days in survivors), increasing weakness, diarrhea, collapse, and death.					
Gross Autopsy Decedents		Hemorrhagic areas of the lungs, liver and kidney discoloration, and gastrointestinal inflammation.					
Survivors (14 Days)		Viscera appeared normal.					

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LOT NUMBER ---

ACUTE EYE IRRITATION (Max. Score = 110. Cornea + Iris + Conjunctivae) Species **New Zealand Albino Rabbits**
 Irritation Score (24, 48, 72 Hour Avg.) **CORROSIVE** Classification **CORROSIVE *** Exposure **24-Hours**
 Dose and Conditions **0.1 Ml. Applied Undiluted / F.H.S.A.**
*** F.H.S.A.: CLASSED as CORROSIVE**

Hours	1			24			48			72			120			168		
	Cornea	Iris	Conjunctivae															
1	0	0	20	30	10	14	20	5	12	20	5	10	10	5	6	5	5	6
2	0	0	20	20	10	14	20	10	8	20	10	8	10	5	4	5	5	4
3	0	0	20	40	10	14	45	10	14	45	10	12	40	10	12	60	10	12
4	0	0	20	30	10	14	20	5	14	20	5	12	30	5	10	20	5	10
5	0	0	20	40	10	14	20	10	14	10	10	10	10	5	6	10	5	4
6	0	0	20	40	10	14	40	5	14	40	5	8	30	5	8	20	5	4
Mean Score	20.0			57.3			47.6			43.3			35.1			32.5		

Comments **Immediate:** Discomfort was severe with pawing, squealing, thrashing about the stocks, and eyes tightly closed
1 Hr.: Severe erythema, severe edema, copious discharge
24 Hr.: Areas of slight corneal cloudiness, iris showed no reaction to light, severe erythema (necrosis), very slight edema, copious discharge containing whitish exudate (with blood)
48 - 240 Hr.: Gradual improvement
14 Days: Corneal ulceration
21 Days: Slight ulceration in two instances, four scored zero

PRIMARY SKIN IRRITATION (Max. Score = 8. Erythema + Edema) Species **New Zealand Albino Rabbits**
 Irritation Score (24, 72 Hour Avg.) **6.2** Classification **Severe *** Exposure **24-Hours**
 Dose and Conditions **0.5 Ml. Applied Undiluted / F.H.S.A.**
*** F.H.S.A.: CLASSED as a Primary Skin Irritant**

HOURS	4				24				48				72				168			
	ERYTHEMA		EDEMA		ERYTHEMA		EDEMA		ERYTHEMA		EDEMA		ERYTHEMA		EDEMA		ERYTHEMA		EDEMA	
ANIMAL NUMBER	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I	A	I	A
1	3	3	4	4	4	4	4	4	4	4	4	4	3	3	3	3	0	0	0	0
2	3	3	4	4	3	3	4	4	3	3	2	2	3	3	2	2	0	0	0	0
3	3	3	4	4	3	3	4	4	3	3	3	3	3	3	3	2	0	0	0	0
4	3	3	4	4	3	3	4	4	3	3	2	2	2	2	2	2	0	0	0	0
5	3	3	4	4	3	3	4	4	3	3	3	2	3	3	2	1	0	0	0	0
6	3	3	4	4	4	4	4	4	4	4	3	3	4	4	2	2	0	0	0	0
Mean Score	7.0				7.3				6.0				5.1				0.0			

Comments **Defatting effect - skin sloughed off in ten to fourteen days. There was no injury in depth.**

INHALATION TOXICITY Species **Sprague-Dawley Albino Male Rats**

Mortality **6/6** Initial sample **115.29** Chamber temperature .. **27 °C**
 Concentration **3.9 Mg/L** Recovered sample **110.09** Chamber humidity **85 %**
 Exposure **5.5 Hrs** Condensed sample **0.09** Chamber volume **35 L**
 Sample temperature... **AMB. °C** Vaporized sample **5.2g** Air flow rate **4.0 L/Min**

Signs of Intoxication { **0-2 Hr.:** Lethargy, nasal erythema
2-5.5 Hr.: Nasal bleeding, ocular discharge and erythema, labored breathing, convulsions, collapse, and death.

Gross Autopsy
 Decedents **Lung hyperemia, fluid in pleural cavity.**

Survivors (Days)

CERTIFICATE OF AUTHENTICITY

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