

October 4, 2006

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Document Control Office (DCO 7407M)  
Office of Pollution Prevention and Toxics  
Environmental Protection Agency  
1200 Pennsylvania Ave. NW  
Washington, DC 20460-0001  
ATTN: 8(d) Health and Safety Reporting Rule (Notification/Reporting)

**CONTAIN NO CBI**

Dear Administrator,

The Eastman Chemical Company has reviewed their files in response to requests by the Environmental Protection Agency to report unpublished health and safety data pursuant to Section 8(d) of the Toxic Substances Control Act (71 Fed. Reg. 47,130, August 16, 2006; 71 Fed. Reg. 57,439, September 29, 2006).

The table below lists those chemicals for which Eastman possessed health and safety data. Copies of this data are organized by the chemical's CAS number on the enclosed compact disc. Please contact Dr. James A. Deyo at 423-229-5208 should you have any problems extracting the information from the disc.

CAS No.	Chemical Name
110-18-9	1,2-Ethanediamine, N,N,N',N'-tetramethyl-
110-33-8	Hexanedioic acid, dihexyl ester
111-85-3	Octane, 1-chloro-
124-63-0	Methanesulfonyl chloride
131-57-7	Methanone, (2-hydroxy-4-methoxyphenyl)phenyl-
25646-71-3	Methanesulfonamide, N-[2-[(4-amino-3-methylphenyl)ethylamino]ethyl]-, sulfate (2:3)
4170-30-3	2-Butenal
645-62-5	2-Hexenal, 2-ethyl-
68987-66-6	Ethene, hydrated, by-products from
7795-95-1	1-Octanesulfonyl chloride
81-07-2	1,2-Benzisothiazol-3(2H)-one, 1,1-dioxide
94-96-2	1,3-Hexanediol, 2-ethyl-
97-00-7	Benzene, 1-chloro-2,4-dinitro-

Regards,

  
Marc G. Schurger  
Director, Product Safety & Health



Enclosure: Compact Disc labeled "Eastman TSCA 8(d) Submission; October 4, 2006"

299312

8607000001  
Eastman Attachments

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(MR-299312)

81-07-2

94-96-2

97-00-7

110-18-9

110-33-8

111-85-3

124-63-0

131-57-7

4170-30-3

7795-95-1

25646-71-3

68987-66-6

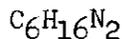
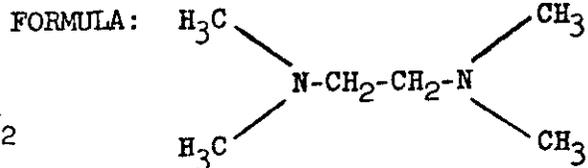
TOXICITY AND HEALTH HAZARD SUMMARY

CHEMICAL: N,N,N',N'-Tetramethyl ethylene diamine

SYNONYMS: T.M.E.D.A.

PHYSICAL FORM: Liquid

MP or BP in °C: B.P. 119-122°C at 760 mm Hg



TOXICITY

This compound is slightly toxic for laboratory animals, having an acute oral LD<sub>50</sub> of 800 mg/kg for rats and of 800-1600 mg/kg for mice. The acute intraperitoneal LD<sub>50</sub> is 50-100 mg/kg for rats and 100 mg/kg for mice. 24 Hour occluded contact with the skin of guinea pigs produced moderate skin irritation. There was evidence of skin penetration with deaths within 24 hours, resulting in a cutaneous LD<sub>50</sub> of 1.0-5.0 ml/kg for guinea pigs. Other investigators report an acute oral LD<sub>50</sub> of 1.58 g/kg for rats orally and a percutaneous LD<sub>50</sub> of 7.0 ml/kg.<sup>2</sup> This compound caused damage to the cornea of the rabbit eye which persisted for more than 48 hours but which cleared in 14 days without treatment. It is a skin sensitizer of low activity for guinea pigs. Inhalation of saturated vapors caused deaths in rats in 10 minutes.<sup>2</sup>

HAZARDS

This compound presents definite hazards for occupational handling by all routes of contact.

PRECAUTIONARY HANDLING

This compound must be handled so as to prevent skin or eye contact and inhalation of the vapors. Personal protective equipment such as skin and eye protection as well as respiratory protection is indicated. Local exhaust ventilation should be used whenever possible.

LABEL: Suggested Warning Phrases

**DANGER!** Hazardous liquid

May cause burns of skin and eyes

Use only with adequate ventilation

Absorption through skin harmful

Do not get in eyes, on skin, on clothing

Avoid breathing vapor

In case of contact, flush skin or eyes with plenty of water; for eyes, get

medical attention

REFERENCES

1. Unpublished Data, Laboratory of Industrial Medicine, Eastman Kodak Company
2. Further Experience with the Range-Finding Test In the Industrial Toxicology Laboratory, Smyth, H.F., Jr. and Carpenter, C.P., J. Indust. Hyg. & Toxicol. 30: 63, 1948.

HEALTH HAZARD: (EKCo. Safety Std. 7.09)

SUMMARIZED BY: Warren H. Jones, M.D.

R - 3

DATE: 8-9-66

S - 3

T.E.C.

## TOXICITY REPORT - E.K.CO. - LABORATORY OF INDUSTRIAL MEDICINE

908178  
06Chemical: **N, N, N', N'-Tetramethylethylenediamine** No: **6178**

Source:

Formula:

Dr. D. W. Fassett, Med. Lab.

Solution	Animals* No. and Species	Route**	Dose Range	Approx. LD <sub>50</sub>	Symptoms	Time of Death	Wt. Change 2 wks
<u>Acute Toxicity</u>							
Undilute	10 R	PO	mg/kg 200-3000	mg/kg 800	Normal to moderate weakness, back arched.	2hr-7da	5+
"	18 R	IP	25-3000	50-100	Slight to very weak, tremor, cyanosis, dark eyes, rough coat, sides caved in, "bloody tears", severe diarrhea in some after 2 days.	2hr-6da	4+
10% H <sub>2</sub> O	10 M	PO	200-3000	800-1600	Normal to very weak, tremor, staxia, convulsions, prostration.	25min- 5 das	6+
"	10 M	IP	25-400	100	Normal to quite weak, tremor, excess lacrimation, staxia.	1-6 das.	5+
						Notebook No.	P
<u>Skin Absorption and Irritation</u>							
Undiluted	3 G.P.	Cuff	cc/kg 0.1-5.0	cc/kg 1.0-5.0	Slight to moderate edema & entire patch area necrotic with up to #3 erythema at periphery. Raised black eschar over patch area with #1 erythema at periphery at 1 week. Black eschar with some scarring or necrosis at periphery and some erythema at 2 weeks.	1 day	+50 +41
						62 P	597
						Notebook No.	

\*G.P. - Guinea Pig, M - Mouse,  
R - Rat, RB - Rabbit\*\*PO - Orally, IP - Intraperitoneally,  
IM - Intramuscularly, IC - Intracutaneously

5/21/63

Remarks:Slightly toxic orally, moderately toxic IP.  
Moderate skin irritant, absorbed through the skin.  
Damaging to the eye, but cleared in 14 days.

**N, N, N', N'-Tetramethylethylenediamine**

#6178

Dr. D. W. Fassett

62-597

## SKIN ABSORPTION AND IRRITATION

Chemical	Formula	Animals* No. and Species	Route	Dose Range cc/kg	Approx. LD <sub>50</sub> cc/kg	Symptoms	Time of Death	Wt. Change 2 wks
<b>EYE DAMAGE</b>								
Undilute		RB	eye	1 drop	Initial	Moderate erythema, severe struggle, squealing and blinking or eye held closed.		
					1 hour:	Severe edema and erythema of palpebrae, conjunctiva, mod. of mistitating membrane, slight erythema of lids, pupil contracted, vessels of iris constricted, eyes stuck shut.		
					24 hrs:	Moderate erythema of conjunctiva, sl. erythema of lids, cornea dull, all tissues stained.		
					48 hrs:	Slight necrosis of conjunctiva with slight edema and erythema, cornea slightly opaque.		
					14 days:	OK		

\* G.P. - Guinea Pig, M - Mouse,  
R - Rat, RB - Rabbit

A - Acetone, D - Dioxane, CO - Corn oil, O - Olive oil  
P.G. - Propylene glycol

