



Memorandum

S. H. Conn
Jordle

Date September 14, 1981

From Chief, Toxicology Branch
CCD, CEH

Darrow
file: KSCC

Subject Qualitative Analysis ^{of} Unknown Organonitrite Samples, Case 81-29

To Dr. Alex Kelter, EIS Officer
Chronic Diseases Division, CEH

Through: Director, Clinical Chemistry Division, CEH

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We have completed our qualitative analysis of the 21 organonitrite samples that were submitted by either you or Charlotte Patton and our findings are given below.

These analyses were done by capillary column/gas chromatography/mass spectroscopy techniques. To better duplicate the chemical composition of the material that a person would be exposed to, a subsample of the headspace (vapor above the liquid) of each sample was introduced into the analytical system. Data obtained from these samples are:

Tox. No.	Description	Bu-NO ₂	C-4 Alcohol	Isoamyl-NO ₂	C-5 Alcohol
029353	A1 Ambush Bar, San Franc. Coll. 7/81			X	
029354	A2 Ambush Bar, San Franc. Coll. 7/81			X	t
029355	Christopher St. BS, NYC Coll. 7/81			X	
029356	C2 Christopher St. BS, NYC Coll. 7/81	X	t		
029357	C7664, Black Jack	X	t		
029358	C7660, SF-1, Hardware Liquid Aroma	X	t		
029359	C7656, Amyl N. <u>The Best</u>	X	t		
029360	7666, U-2, Hardware Liquid Aroma	X	t		
029361	C7655, Rush Liquid Incense	X	X		

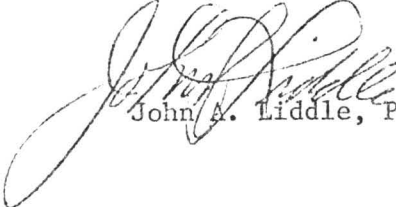
2 - Dr. Alex Kelter

Tox. No.	Description	Bu-NO ₂	C-4 Alcohol	Isoamyl-NO ₂	C-5 Alcohol
029362	C7659, J-2, Clear	X	t		
029363	C7658, J-1		t	X	
029364	C7663, SF-4, Locker Room Odorizer	X			
029365	C7661, SF-2, ⁰ Balt Liquid Incense	X	t		
029366	C7662, SF-3, Rush Liquid Incense	X	X		
029367	C7657, Locker Room Odorizer	X	t		
029368	C7665, U-2, Anti Knock			X	
029370	P2 - Atlanta Pig Poppers			X	
029371	P1 - Atlanta Pig Poppers			X	
029372	P3 - Atlanta Unlabeled			X	
029399	J-1, New York, 9-10-81, Josef			X	
029400	P4, New York, 9-8-81 PB			X	

X= major compound present

t= only a trace of compound present

Also attached is a copy of Dr. Hill's calculation of the estimated dose of each organonitrite a person would receive when inhaling 20 ml of the head-space material. I must stress that this is a theoretical calculation in which several undefined assumptions have been made and these assumptions must be kept in mind when one considers the final weights Dr. Hill obtained.


John A. Liddle, Ph.D.

Attachment