THE CHEMICAL RUBBER CO.
2310 SUPERIOR AVENUE · CLEVELAND, OHIO 44114 · TEL: 216-781-8330

EDITORIAL DEPARTMENT
ROBERT C WEAST, PH. D. – EDITOR-IN-CHIEF

April 7, 1967

PLEASE ADDRESS REPLY TO:
Irving Sunshine
The Chemical Rubber Co.
2310 Superior Ave.
Cleveland, Ohio 44114

Dr. R. Kehoe
Kettering Laboratory
College of Medicine
University of Cincinnati
Eden Avenue
Cincinnati, Ohio 45219

Dear Dr. Kehoe:

There is no current overall compilation of data on the chemical, physical and toxicological properties of air pollutants. Anyone requiring these facts must search through many different sources to obtain the data they require. A comprehensive collation of the existing data published in a single volume would be a valuable asset.

To this end, I have agreed to help edit a volume whose tentative title is "Handbook of Drugs and Environmental Hazards". The required data are available in many files scattered all over the world. These data are not secret, and generally are made available to anyone whose reasonable request solicits them. One person cannot possibly uncover all the sources and all the facts. However, with the help of key people this project is a realistic one, and has a predictable probability of success. I hope you will help. If so, I would like you to complete the enclosed data form for Lead.

I am sure you will agree that this is a worthwhile project, and cooperate. I would appreciate your material on or before May 31.

Sincerely yours,

Seymour Calvert

Seymour Calvert, Ph.D. (7)

SC:bj

EXPLANATION OF DATA REPORT FORM FOR ENVIRONMENTAL HAZARDS HANDBOOK

Our objective is to present the best available information on each pollutant. Choices and judgments should not be left for the reader because he is not as competent to make the judgments as you are. Therefore a critical evaluation should proceed filling out the data form.

Hopefully the scope and format of the two data sheets provide a fairly adequate set of pigeonholes for most items. Where more information is essential and available, please provide it. A partially filled out sample sheet for SO_2 is provided to clarify the meanings of some headings.

Please list your references on the literature reference data sheet.

DATA REPORT FORM for AIR POLLUTANTS

Reporter's Name and Address S. Doe, etc.

Pollutant Sulfur Dioxide, SO_2

Physical Properties, Mol. Wt. =64.07, n.B.Pt. = $^{-}10^{\circ}C$, Vapor Press.=

°C				
mm Hg				

Lower Explosive Limit = None Heat of Combustion = Not Useful

Effect	Single Concn.	Average Concn.	Time of Average	Other	Ref.	Subject
Odor	0.3 -1 ppm				1	Human
Taste	0.3 -1 ppm				1	Human
Central Nervous System					2	
Epidemiological Significance		0.15	24 hr	Morbidity (Susp. particulate =0.5 mg/m^3)	1	
		0.4	24 hr	Mortality		Human
Pulmonary Function	1-2 ppm			Short Term	3	
Discomfort	5 ppm				3	
Mucosa	10 ppm				3	
Severe Distress	10-50 ppm				3	
Histological		112 ppm	20 hrs	Agranulcytosis		
Pathological		112 ppm	20 hrs	Kidney Damage, Liver Neurosis		
Lethal		112 ppm	113 hrs	LD/50	3	Guinea Pig
		50 ppm		30 Day @ 6 hr/day		
Other				LD/50		Rabbit
Plant Leaf Symptoms		1.0	Several Hours		4	Conifers
Plant Chlorosis						
Plant Growth Alt.		0.45		4 hrs/day for 1 mo.	5	
Plant Killing						

RE 0020275

DATA REPORT FORM for AIR POLLUTANTS

Reporter's Name S. Doe Pollutant: SO_2

MAC or TLV 5 ppm (8)

Ambient Air Quality Criterion 0.05 ppm 30 day ave., 0.15 ppm 24 hr, 0.5 1 hr (6)

Emission Std. 2,000 ppm (7)

Sampling Method:
(Recommended)
(Type: Air, etc.)

Analytical Method:
(Recommended)
(Give Reference)*

Field Identification:

(Give Reference)*

Other Information:

* Please list your references on the cited reference sheet attached.

DATA REPORT FORM for AIR POLLUTANTS

Reporter's Name and Address _____

Pollutant _____

Physical Properties, Mol. Wt. = n.B.Pt. = Vapor Press.=

°C				
mm Hg				

Lower Explosive Limit = Heat of Combustion =

Effect	Single Concn.	Average Concn.	Time of Average	Other	Ref.	Subject
Odor						
Taste						
Central Nervous System						
Epidemiological Significance						
Pulmonary Function						
Discomfort						
Mucosa						
Severe Distress						
Histological						
Pathological						
Lethal						
Other						
Plant Leaf Symptoms						
Plant Chlorosis						
Plant Growth Alt.						

DATA REPORT FORM for AIR POLLUTANTS

Reporter's Name _____ Pollutant: _____

MAC or TLV _____

Ambient Air Quality Criterion _____

Emission Std. _____

Sampling Method:
(Recommended)

(Type: Air, etc.)

Analytical Method:
(Recommended)

(Give Reference)*

Field Identification:

(Give Reference)*

Other Information:

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* Please list your references on the cited reference sheet attached.

CITED REFERENCES

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