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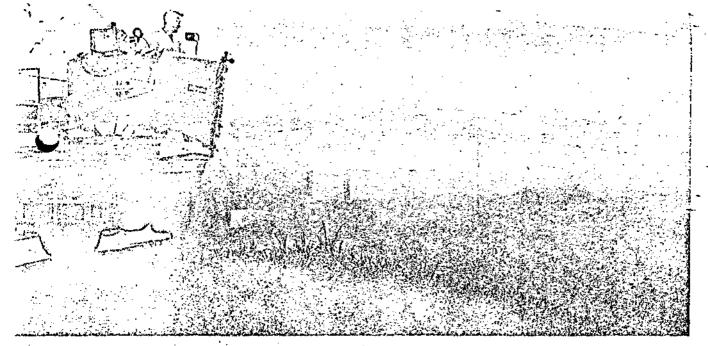
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remical & Engineering

SEWS
FEBRUARY 16, 1970

Spraying roadside grass

No harm to humans

USDA's Ned Bayley More research data

# 1EW, USDA HOLD FIRM; 2,4,5-T RULING POSTPONED

e Nixon Administration apparently ved notice last week that while it is t insensitive to the needs to protect man health from potential chemical zards, as some leading spokesmen m the "ban pesticides now" movent have charged, neither is it about be stampeded into overreacting on basis of sketchy and/or question-le returns. The issue at hand: 2,-5-T, a herbicide indicted as a possicause of birth defects in laboray animals.

The notice came in the form of a ter from Dr. Ned Bayley, Director Science and Education for Agricule, to Rep. Richard McCarthy (D.-Y.) explaining why registration of 1,5-T for domestic use had not been iccled as earlier statements prom-

Last October, White House science viser Lee F. DuBridge announced it Agriculture would cancel registion of 2,4,5-T for use on food crops d that HEW would "complete acan on the petition requesting a finite erance for 2,4,5-T residues" by Jan. 1970.

HEW and Agriculture were visibly preceder what appeared to be presitate entry into foreign territory by DuBridge. Considerable jockeys for position between the agencies ded to the confusion. The inter-

necine squabbles apparently have been resolved, however.

Earlier this month, Rep. McCarthy assailed Agriculture and HEW when he learned the herbicide was still in use. Rep. McCarthy charged the departments with "insensitivity to the need to protect human health" and announced that he would visit Globe, Ariz., to investigate allegations that accidental drifting of Silvex-2-(2,-4,5-trichlorophenoxy) propionic acid-used by the Forest Service in a brush control program resulted in damage to crops, birth defects in animals, and health problems for local residents.

In a letter to Rep. McCarthy last week, Dr. Bayley said that the 2,4,5-T used in the Bionetics study contained 27 p.p.m. of a highly biologically active contaminant, whereas 2,4,5-T of current manufacture contains only about 1 p.p.m. "HEW believes that the public interest would best be served by waiting for additional research data which will be available shortly," Dr. Bayley said. "We concur in their judgment." Dr. Bayley added that other polychlorophenolic pesticides would be examined for traces of the contaminant,

The additional evidence, according to Dr. Jesse L. Steinfeld, Surgeon General for the Public Health Service,



was submitted by Dow Chemical Co, and confirmed by the National Institute of Environmental Health Science.

Dow, the nation's largest producer of 2,4,5-T, flatly denies that the herbicide is responsible for the multitude of ill effects ascribed to it by the Bionetics report. The culprit, Dow thinks, is 2,3,7,8-tetrachlorodibenzo-p-dioxin.

That dioxin is a troublesome contaminant of 2,4,5-T is not news. As early as 1940 an unknown toxic component associated with the production of 2,4,5-trichlorophenol (one of the components involved in the manufacture of 2,4,5-T) was observed to cause chloroacne among factory workers.

By 1955, a group of German chemists had tentatively identified the chloroacnogen as a polychlorobenzofurane. In 1961 Dr. H. Bauer, Dr. K. Schulz, and Dr. U. Spiegelberg pinned the

#### THE CHEMICAL WORLD THIS WEEK

blame on tetrachlorinated dibenzodioxins, which result from the alkaline hydrolysis of 1,2,4,5-tetrachlorobenzine to 2,4,5-trichlorophenol. They bserved that synthetically produced 2,3,6,7-tetrachlorodibenzodioxin produced follicular hyperkeratosis and comedones on the inner surfaces of rabbit ears when applied in concentrations of 0.01 to 0.005% in polyglycol solution. To prove that the substance could cause chloroacne on human skin, Dr. Schulz applied a 0.01% solution to a small area on his forearm. He was eminently successful.

Although dioxin has long been recognized as a chloroacnogen, the Bionetics study was the first to suggest its possible teratogenicity. Dow emphasizes that there is no direct proof yet that dioxin is teratogenic, but experiments are under way to settle the is-

Preliminary tests conducted at Dow's Zionsville, Ind., human health laboratories indicate that standard production 2,4,5-T (containing less than 1 p.p.m. chloroaenogen) is not teratogenic. Sprague-Dawley rat fetuses exposed to various concentrations of 2,4,5-T during organogenesis. showed no anatomical defects. Dow expects that more involved staining and skeleton clearing processes will e completed within two weeks.

confirmed by HEW. Studies attempting to establish a direct link between dioxin and birth defects are, however, complicated by the fact that the pure substance is not readily available. Dow has begun preliminary "range-finding" experiments with both rabbits and rats, but the results are not expected for several weeks. If Dow is able to establish that dioxin is the teratogen, new environmental pollution questions

Dow's preliminary studies have been

Dioxins may be liberated from trichlorophenols or pentachlorophenols subjected to excessive heat. The polyehlorophenols find diverse application as fungicides, disinfectants, and antislime agents in the paint and paper industries.

It is not immediately apparent what conditions would need to be satisfied to release dioxin from the poly-Nor is it known chlorophenols. whether or not dioxins accumulate in the environment.

Preliminary work by Dow shows that spectral absorption characteristics of dioxin undergo marked change when exposed to light from a sunlamp. Dow speculates that dioxin may photodegrade in the environment in a short period of time, but further studies will be necessary to identify the degradation product.

### **ENVIRONMENT:**

## Nixon Sets Program

President Nixon's eagerly awaited environmental program has turned out to be as tough as it is comprehensive. And it's expensive. Spending for new and uprated municipal waste treat-

ment plants alone will be \$10 billion.
Almost half of the program is directed at water pollution. Technology and resources, the President said last week, are now available for swift action on industrial and municipal wastes. But for agricultural wastes, "the most troublesome to control," the President calls for intensified research. Included in his water pollution program are proposals requiring cities to charge user fees for treating industrial wastes and extending federal-state water quality standards to impose precise effluent standards for all industrial and municipal sources.

Commenting that about one half of U.S. air pollution stems from motor vehicles, the President called for legislation authorizing the Health, Education, and Welfare Secretary to regulate fuel composition and additives.

With an eye toward ending auto pollution altogether, President Nixon said that he has ordered an extensive federal R&D program to develop an unconventionally powered, low-pollu-tion auto within five years. To spur private efforts, the Government will purchase privately produced vehicles for testing and evaluation and offers a market carrot of fleet size purchases.

The President proposes setting nationwide air quality standards, accelerating designation of air quality control regions, and setting national emission standards for facilities that emit pollutants extremely hazardous to health and for certain new facilities. He would extend federal authority to inter- and intrastate situations where



President Nixon Tough and expensive

air quality violates national standards. or where emissions standards or implementation timetables are not met.

Failure to meet water and air quality standards or implementation guidelines by an industry or a city could prompt court imposed fines of up to

\$10,000 per day.

For solid wastes, the President ordered research to be redirected toward techniques for recycling materials and called for development and use of easily degradable materials, For some solid wastes, such as auto hulks, he suggests a bounty or other payment, perhaps an excise tax, to pay for scrapping.

To ensure a measure of success for his proposals, the President did not hinge his program entirely on Congressional approval. Fourteen of the program's 37 points can be effected by Administration action or executive order.

## POLLUTION: To the Courts

The Federal Government, states, cities, and citizens are taking the pollution issue to the courts in a rapidly spreading rash of lawsuits. In recent antipollution actions:

 The Justice Department filed criminal charges against 11 companies and one individual in the Chicago area.

 New York state filed suit against 18 major airlines.

• The city of Philadelphia filed suit against 13 auto makers and the Automobile Manufacturers Association (AMA)

A bill presently before the Massachusetts Legislature would allow private citizens to bring suit against anyone polluting the environment.

In the federal case in Chicago, Attorney General John N. Mitchell authorized U.S. Attorney Thomas A. Foran to initiate a grand jury investigation into the deposit of unusual amounts of solid waste materials into the Calumet River and Lake Michigan. Mr. Foran filed the water pollution charges, alleging violation of an 1899 law which makes the deposit of refuse into the navigable waters of the U.S. a misdemeanor subject to a maximum penalty of one year in prison and a fine of \$2500 for each offense.

All but one of the alleged violations were said to have occurred in 1969, The cases were referred to the Justice Department by the Army Corps of Engincers.

The state of New York suit, similar to previous suits by Illinois and New Jersey, asks the state supreme court to order 18 airlines serving Kennedy and La Guardia airports either to halt the emission of pollutants from jet engines