United States Environmental Protection Office of Solid Waste and **Emergency Response**



DIRECTIVE NUMBER: 9443.00-24

TITLE: Determination of Regulatory Status-Light Bulbs.

APPROVAL DATE: 4/30/86

EFFECTIVE DATE: 4/30/86

ORIGINATING OFFICE: OSW/SMP

I FINAL

☐ DRAFT

STATUS:

REFERENCE (other documents):

OSWER OSWER OSWER VE DIRECTIVE DIRECTIVE DI

United States
Environmental Protection
Agency

Office of Solid Waste and Emergency Response

\$EPA

DIRECTIVE NUMBER: 9443,00-24

TITLE: Determination of Regulatory Status-Light Bulbs.

APPROVAL DATE: 4/30/86

EFFECTIVE DATE: 4/30/86

ORIGINATING OFFICE: OSW/SMP

▼ FINAL

☐ DRAFT

STATUS:

REFERENCE (other documents):

OSWER OSWER OSWER LE DIRECTIVE DIRECTIVE D

	United States 15 Feb.		5 Augus		
0=04	Wasning	ton, DC 20460	in Agency		interior Directive Numbe
≎EPA os	WER Directiv		on Rea	uest	9443.00-2A
		inator informatio			<u></u>
Name of Contact Person	Mail Code -	Branch		Telephone Numbe	
David Friedman	WH-562B	SMB		382-4770	
Lead Office OUST	-		Approved	for Review	
OERR OWPE	Signature of Office	e Director			Date
S OSW AA-OSWEF	,				
Title					
Determination of Regul Products, Inc.	atory Status. L	ight Bulbs	Letter t	o Ritchey V	aughn/Quicksilve
. -					
Summary of Directive					
Opinion on whether flo waste when discarded.	urescent and mer	cury vapor	light bu	lbs are or	are not hazardou
Key Words:					
Mercury, Light Bulbs,	Hazardous Waste				
Type of Directive (Manual, Policy Direction Letter of clarification	•			Status Oraft Final	New Revision
Does this Directive Supersede Previous If "Yes" to Either Question, What Direct		X No Do	es it Suppleme	ent Previous Direct	tive(s)? X Yes
Review Plan AA-OSWER OUST OERR OWPE OSW Regions	OECM OGC OPPE	Othe	r (Specify)		
This Request Meets OSWER Directives : Signature of Lead Office Directives Office				····	Date
11 - 11 - 11	e:				5-29-86
Joan Wall			· · · · · · · · · · · · · · · · · · ·		
Signature of OSWER Directives Officer					Date

DFMA:02:30



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

APR 30 1986

OFFICE OF
SOLID WASTE AND EMERGENCY RESPONSE

CSWER Pelicy Directives # 9443.00-21

Mr. Ritchey Vaughn Quicksilver Products, Inc. 200 Valley Drive, Suite 1 Brisbane, California 94005

Dear Mr. Vaughn:

I am writing in response to your request for a definitive opinion on whether discarded fluorescent and mercury vapor lamps would be classified as a hazardous waste under Section 261.24 of the Resource Conservation and Recovery Act (RCRA) regulations.

With only the data you submitted, it is not possible for me to give you a definitive answer to your question. For example, using the data presented on the GE MVR1000/VBU lamp as a worst case, the amount of mercury that is potentially available is 223 mg/kg of waste. If all the mercury was extracted into the Extraction Procedure (EP) extract during the test, this would yield an extract concentration of 11.3 mg/l. However, mercury is a relatively inert metal, with respect to reactivity toward nonoxidizing acids such as the acetic acid used as the extraction medium in the EP. In addition, while mercury has a relatively high solubility in water (as compared to most metals), it solubility is only .02 mg/l which is substantially below the regulatory threshold of 0.2 mg/l.

While I do not believe that either fluorescent or mercury vapor lamps would be hazardous waste under the RCRA regulations, actual EP testing would have to be conducted before any definite conclusion could be drawn. You should keep in mind, however, that RCRA is a State administered program in those States that have applied for and received authorization. In such States it is the State program which must be adhered to. Some States have more stringent regulations than those of the Federal program. Thus, it is possible that a State may elect to regulate a waste as a hazardous waste based on its total mercury content and not on leachable mercury. California may be one such State. I recommend you contact the California Department of Health Services for State-specified regulations.

If you have any further questions, please feel free to call me at (202) 382-4770 or you may call the RCRA/Superfund Hotline at (800) 424-9346.

Sincerely yours,

David Friedman Manager

Methods Program