



COMPANY, INC.

6133 EDITH BOULEVARD NE
ALBUQUERQUE, NM 87107
PHONE (505) 345-3655

September 13, 1995

Ms. Barbara Hoditschek
RCRA Permits Program Manager
Hazardous and Radioactive Materials Bureau
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 85702



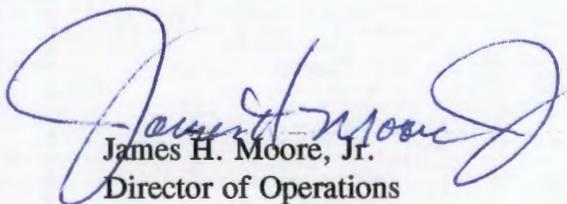
RE: ADDITIONAL INFORMATION ABOUT LIGHTBULB CRUSHING

Dear Ms. Hoditschek:

As promised, I am enclosing photographs of the Proveda Model 92 Fluorescent Tube Crusher. I am also enclosing all of the information that has been provided to us by Proveda, Inc. concerning the equipment. If you need any more information, please let me know.

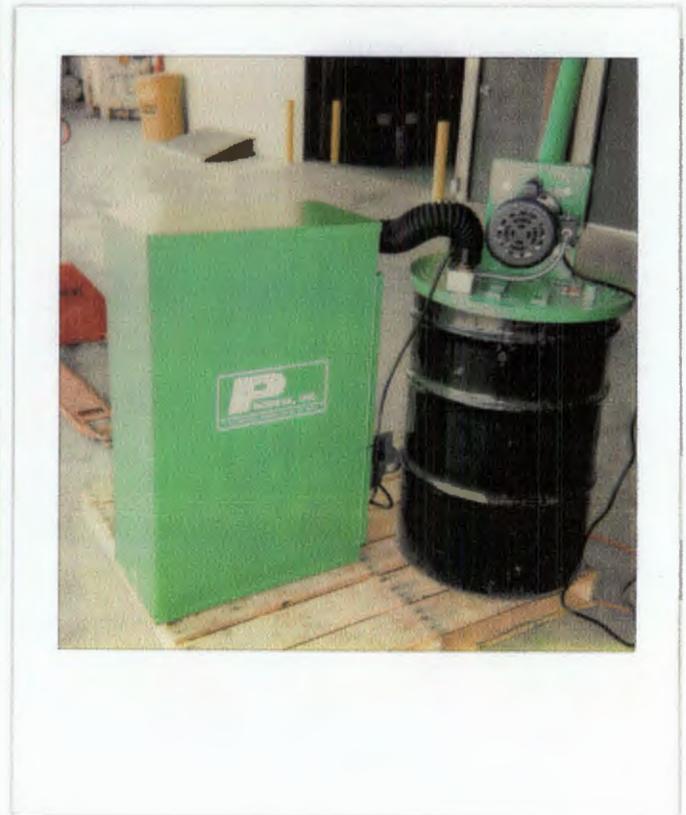
We anticipate that the maximum frequency that we will be crushing bulbs at our facility is once a month, and we anticipate that we will crush one hundred to 10,000 bulbs each of these times depending on our customers' needs.

Thanks for your time and consideration of this matter,


James H. Moore, Jr.
Director of Operations

sw

enclosures

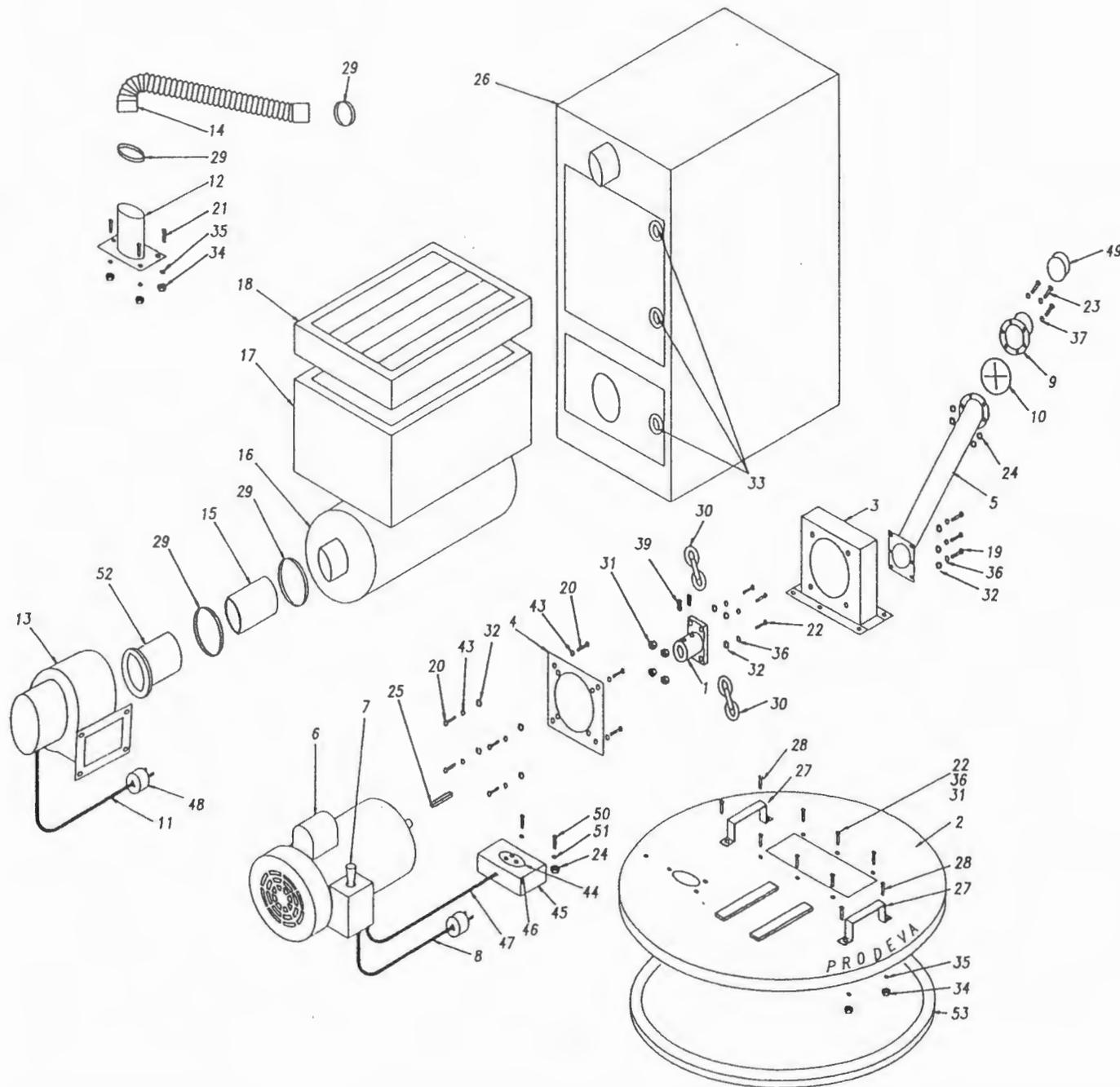


**PROVEDA MODEL 92
FLUORESCENT TUBE CRUSHER
AT RINCHEM COMPANY, AUGUST 1995**

MODEL 92 OPERATING INSTRUCTIONS

1. Remove machine and filter from shipping crates.
2. Put clear sealant on base of infeed chute and bolt to machine housing.
3. Plug blower into electrical box located on top of barrel cover.
4. Plug machine into standard 110 volt outlet.
5. Turn power switch to the on position. This should activate the machine as well as the blower on the filter housing.
6. Carefully feed tubes into infeed chute.
7. Always wear safety glasses and gloves.
8. Always wear a respirator or mercury dust mask when replacing filters.
9. The small dust filter should be changed approximately every 1200 tubes.
10. The large dust filter should be changed as needed.
11. The activated carbon filter should be changed after disposing of 25000 tubes.

MODEL 92



#	QTY	ITEM	PRODEVA #
1	1	IMPELLER	A22-2
2	1	BARREL COVER	P90S-601-1
3	1	HOUSING	AP90S-101-5
4	1	FLANGE-MOTOR PL.	P90S-501-1
5	1	NECK WELDMENT	AP90S-201-1
6	1	MOTOR	26-1
7	1	SWITCH	51-1
8	1	POWER CORD	57-1
9	1	RING NECK FLANGE	A99-616
10	1	GASKET-RUBBER	13-3
11	1	CORD	57-8
12	1	ADAPTER	A99-617
13	1	BLOWER	5-1
14	1	FLEX HOSE	20-1
15	1	ADAPTER BLOWER	20-3
16	1	CARBON FILTER	12-12
17	1	FILTER	12-26
18	1	PRE-FILTER MEDIA	12-27
19	6	5/16-18x5/8	02-17
20	8	3/8-16x3/4	02-34
21	3	1/4-20x3/4	02-4
22	10	5/16-18x1	02-20
23	8	10-32x1/2	03-130
24	10	10-32 NUT	04-27
25	1	KEY 3/16"	
26	1	FILTER CABINET	A12-28
27	2	HANDLE	P27-701-15
28	4	1/4-20x3/4	03-621
29	4	CLAMP - FILTER	11-1
30	4	CHAIN	7-1
31	10	5/16-18 NUT	04-102
32	14	5/16 FLAT WASHER	06-68
33	3	DOOR KNOB	17-2
34	7	1/4-20 NUT	04-101
35	7	1/4 LOCKWASHER	05-49
36	16	5/16 LOCKWASHER	05-50
37	8	10-32 STARWASH	05-153
38	1	GASKET SEALANT	13-1
39	2	1/4-20x1/4SET	014-3000
40	3	1/4-20 x1/2	02-2
41	14	1/4 FLAT WASHER	06-67
42	8	3/8 FLAT WASHER	06-69
43	8	3/8 LOCK WASHER	05-51
44	1	LOCKING OUTLET	60-2
45	1	OUTLET BOX	60-1
46	1	BOX COVER	60-3
47	1	CONDUIT	53-1
48	1	PLUG TWIST LOCK	60-4
49	1	PLUG	34-1
50	2	10-32x1 1/2	03-137
51	2	#10 LOCKWASHER	05-25
52	1	BLOWER MOUNT	A99-622
53	1	GASKET	13-9
54			
55			
56			

1-800-999-3271

Prodeva, Inc. Warranty

Prodeva, Inc. guarantees the material and workmanship used in the manufacture of it's equipment is of good quality.

Prodeva, Inc. agrees to furnish to the Purchaser, without charge, F.O.B. Jackson Center, OH any part proving defective in either material or workmanship within one year from date of shipment, provided Purchaser gives Prodeva, Inc. immediate written notice of defective part with description of same. Prodeva, Inc. will also inspect said part in order to verify any defectiveness.

Unless otherwise agreed to in writing by Prodeva, Inc., Purchaser shall bear the expense of installation. All liability by Prodeva, Inc. shall be limited to furnishing such part or parts.

Failure of equipment or parts due to abuse or incorrect adjustments shall not constitute failure because of defective material or workmanship.

IMPORTANT NOTE: In the event of motor failure, please contact the nearest Authorized Service Station of motor manufacturer. Warranty on motor by the manufacturer is void if the motor is tampered with by anyone other than the authorized representative of the motor manufacturer.

GENERAL SAFETY INSTRUCTIONS

WARNING:

It is the responsibility of the purchaser of this machine to train his operating personnel in the proper manner of operation.

It is furthermore understood that Prodeva, Inc. assumes no responsibility for injury, disability or death resulting from improper operation of, removal of, or bypassing of any electrical or mechanical safety device incorporated in the design and manufacturing of this equipment.

DANGER: HIGH VOLTAGE

Before working on any electrical circuits, panels, or motors, turn the equipment main disconnect device or Manual Starter "OFF", lock it when applicable, or remove power cord from receptacle.

Failure to follow this instruction may result in death or serious personal shock and injury.

WARNING:

The installer must comply with all applicable codes, ordinances, specifications, and/or other governing data related to installation. Failure to follow this instruction may result in personal injury and/or machinery damage.

NOTE:

Whenever you are calling Prodeva, Inc. about your Recycling Equipment, please have the serial number available since all records are filed under that serial number.

WARNING:

Accidents can occur that result in serious personal injury to yourself or others due to clothing and other articles becoming entangled in moving elements. The following suggestions, if followed, will help you to avoid such accidents: **NECKTIES, SCARVES, LOOSE HANGING CLOTHING, AND JEWELRY SUCH AS WATCHES, RINGS, OR NECKLACES** must not be worn around machinery. Wear short sleeve shirt or roll your sleeves up past your elbow, and keep your shirt tucked in. If you have long hair, restrain it with a cap or net. Wear gloves only when essential, such as for handling rough, sharp or hot parts. Never wear gloves when they can become entangled in the equipment.

WARNING:

Do not leave foreign articles laying on conveyors or crushers, they could cause injury by distracting or hitting the operator. They could cause the equipment to malfunction by shorting an electrical circuit or jamming the equipment.

WARNING:

Always keep your working area clean. Dirty work areas with such hazards as oil or water on the floor may cause someone to fall to the floor, into the equipment, or onto another object resulting in serious personal injury. If spillage or leakage occurs, immediate attention is recommended. Failure to heed these warnings may result in injury to your personnel and/or damage to your equipment.

DANGER:

Operator and maintenance personnel shall read and understand these precautions completely before operating, setting up, running, or performing maintenance on the equipment. Fatal injury may result if the previous instructions are not completely followed.

WARNING:

Do not climb on the equipment. The use of a ladder or platform is recommended. Climbing on the equipment could cause an equipment malfunction and may result in severe injury.

WARNING:

The proper clothing for the job is to be worn at all times. A number of types of protective equipment is available which can help you to avoid injury. Always wear approved eye or face protection and keep them clean, (glasses, shields, etc.). Wearing safety toe shoes with skid-proof soles will help to prevent injuries from falling objects or slipping and falling. Wear a safety hat. Keep your protective equipment in good condition and be sure it meets or exceeds any required or recommended standards. Failure to heed this warning may result in injury to your personnel and/or damage to your equipment.

WARNING:

Failure to connect the proper voltages to the equipment may result in personal injury and/or equipment damage.

WARNING:

If for any reason, the electrical work cannot be completed and the machine must be left unattended, always lock the main disconnect switch in the "OFF" position. Never bypass or wire around safety limit switches.

Material Safety Data Sheet
 May be used to comply with
 OSHA's Hazard Communication Standard,
 29 CFR 1910.1200. Standard must be
 consulted for specific requirements.

U.S. Department of Labor
 Occupational Safety and Health Administration
 (Non-Mandatory Form)
 Form Approved
 OMB No. 1218-0072



IDENTITY (As Used on Label and List)

Type CB Activated Carbon

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufacturer's Name Barnebey & Sutcliffe Corporation	Emergency Telephone Number (614) 451-2392
Address (Number, Street, City, State, and ZIP Code) 835 North Cassady Avenue	Telephone Number for Information (614) 258-9501
Columbus, OH 43219	Date Prepared May 7, 1989
(P.O. Box 2526, Columbus, OH 43216)	Signature of Preparer (optional)

Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
ACTIVATED CARBON BASE MATERIAL NON HAZARDOUS PER OFFICE OF HAZARDOUS MATERIALS MANAGEMENT				
CARBON OR ACTIVATED CARBON , CHEMICAL FORMULA "C"				
CAS #7440-44-0				

IODINE IMPREGNANT-NOT FOR HUMAN CONSUMPTION

Section III — Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	Carbon-nominal Pure Iodine	0.20 4.93
Vapor Pressure (mm Hg.)	N/A	Melting Point		N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (Butyl Acetate = 1)		N/A

Solubility in Water

Activated carbon not soluble, pur iodine, 0.0013 Moles/Liter

Appearance and Odor

Black irregulare granules without odor, free flowing when dry.

Section IV — Fire and Explosion Hazard Data

Flash Point (Method Used) N/A	Flammable Limits Lg Temp. 340°C	LEL N/A	UEL N/A
----------------------------------	------------------------------------	------------	------------

Extinguishing Media

Not rated by the NFPA. Water - inert gases such as N₂ or CO₂, dry chemical agents.

Special Fire Fighting Procedures

Since wet activated carbons adsorb oxvgen. do not enter closed vessels without using a self contained

breathing apparatus.

Unusual Fire and Explosion Hazards

N/A

Section V — Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	X	Close proximity to volatile solvents; open flames; strong oxidizing or reducing chemicals.

Incompatibility (Materials to Avoid)

Ammonia, metal acetylides and carbides, potassium metal, tetramine copper (II) sulphate

Hazardous Decomposition or Byproducts

none

Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	X	

Section VI — Health Hazard Data

Route(s) of Entry: Inhalation? Dust may be inhaled. Skin? Skin may be exposed. Ingestion?

Health Hazards (Acute and Chronic)

N/A

Carcinogenicity: N/A NTP? N/A IARC Monographs? N/A OSHA Regulated? N/A

Signs and Symptoms of ~~Exposure~~ Overexposure:

(pure iodine) Irritation of eyes and respiratory system. Pure solid iodine irritates skin and if taken internally, there is severe internal irritation.

Medical Conditions

Generally Aggravated by Exposure N/A

Emergency and First Aid Procedures

(pure iodine) Irrigate eyes and skin with copious amounts of water. For inhaled dust, monitor breathing and administer artificial respiration or oxygen. Transport to hospital if required.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material Is Released or Spilled

Collect with broom and shovel. Wear a particle mask, goggles and gloves. If media becomes wet, store for waste disposal in plastic-lined containers. Do not enter large closed vessels without a self-contained breathing apparatus - especially when carbon is wet. Wash spill site with copious amounts of water. A sodium thiosulphate or sodium metabisulphite solution may also be used to wash iodine stains from spill site.

Waste Disposal Method

Place in suitable container and dispose of by incineration or by transfer to a sanitary landfill in accordance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing

While handling, use a particle mask, goggles and gloves. Store away from volatile organic solvents and moisture to preserve media.

Other Precautions

Section VIII — Control Measures

Respiratory Protection (Specify Type)

Dust or Particle Mask

Ventilation	Local Exhaust	Special	N/A
	Mechanical (General)	Other	N/A
	Dust Filter		

Protective Gloves Gloves-corrosive chemical resistant Eye Protection Goggles

Other Protective Clothing or Equipment

N/A

Work/Hygienic Practices

N/A

APPENDIX B

PRODEVA, INC.
100 JERRY DRIVE
JACKSON CENTER, OH 45334

PHONE 513-596-6713

OPERATING INSTRUCTIONS FOR MODEL: 90 FLUORESCENT TUBE CRUSHER

1. Place sealant on face of housing and assemble chute.
2. Place model: 90 crusher over a 55 gallon drum.
3. Plug cord into a standard 115 volt outlet.
4. Turn switch (located on the motor) to the "ON" position and feed tubes into inlet of the machine. NOTE: Do not pull down on the tube while feeding, this will cause the tube to hit the impeller on the up swing.
5. No lubrication is required.
6. Eye protection and gloves must be worn when operating this machine.
7. Always use this machine in a well ventilated area. Some vapor will be emitted, so do not use the crusher in an enclosed area.
8. Wear a respirator or suitable dust mask when removing the crusher from the full 55 gallon drum.

FILTER SYSTEM

Replacement filters can be ordered from Prodeva, Inc.