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NA-1107-3 PT REV 10-66 9-72

SPEEDY® MOORE BUSINESS FORMS, INC. 1

REPLY MEMO

CYANAMID

TO

William Island

FROM

Chicago

ATTENTION

OFFICE OR DEPARTMENT

J. Moore

INDIVIDUAL

OFFICE OR DEPARTMENT

A. Dwyer

SUBJECT AND
OR REFERENCE

DATE

10/10/75

Jim: Could we draw from your experience in the pigments shop to help us in testing the way a man may absorb lead and how we may set up controls. All employees at the Chicago plant are getting full 8 hours effort in the area.

REPLY

DATE

CYWI 3-000904

INSTRUCTIONS: HANDWRITE OR TYPEWRITE YOUR MESSAGE. REMOVE BLUE COPY FORWARD TO ADDRESSEE AND MAIL. WHITE COPY REMAINS WITH YOU. CONCERNED WHO WILL REPLY IN SPACE ALLOWED. RETURNING WHITE COPY AND RETAINING ORIGINAL.

REPLY MEMO

CYANAMID

TO

Willow Island

FROM

Chas. C. ...

ATTENTION

J. M. ...

INDIVIDUAL

St. ...

SUBJECT AND
OR REFERENCE

DATE

up to ...

James ...
Superior ...
...
...

CYWI 3-000905

10/10/75

TEAM EFFORTCONTROL OF LEAD ABSORPTION

YOUR DAILY WORK ASSIGNMENT GIVES YOU THE VALUABLE EXPERIENCE AND KNOWLEDGE IN THE AREA OF CONTROL OF LEAD ABSORPTION.

WOULD YOU PLEASE RECORD YOUR THOUGHTS AS TO HOW A MAN CAN ABSORB LEAD AND THE TECHNIQUE REQUIRED TO CONTROL THIS.

1. Employee's Can absorb lead from breathing the dust or fumes,
also lead can be absorbed through the mouth.
My first thoughts on how to Control lead
2. absorption would be to prevent all dusting in the
operating area, by an adequate dust collector & exhaust
system. Use vacuum equipment to clean up spills.
3. rather than brooms or brushes. prevent
dusting while handling product. Wear dust tight
respirators, and avoid breathing litharge dust or fumes
when they are possible.
4. Personal hygiene habits should be adhered to
by all employees directly involved in the
handling of lead. Wash hands and face, brush
5. teeth, before eating or smoking. Designated
area for eating & smoking. Segregated from production
area. Daily shower, and daily change of work clothes.
6. If clothes become saturated with product, shower
+ change clothes. Food, tobacco (any form)
candy, or any thing that would collect lead dust
that would enter the mouth, should not be
taken into the production area.
Enclosed is a copy of "Work habits. Good health"
I recommend a copy of this be issued each
employee.

CYWI 3-000906

N14669.01

The following recommendations are made to reduce airborne lead concentrations in the workareas of the Pigment Department:

Employee Work Practices

1. Make use of mechanical exhaust ventilating equipment provided. Containers with pigments (put and take receptacles, sample tray, etc.) should be placed as close as possible to the exhaust source to obtain maximum control.
2. Discontinue practice of dry sweeping. Floors, production and packing equipment, exhaust system ductwork and adjacent surfaces must be vacuum cleaned.
3. Vacuum clean litharge bags prior to transfer of bags to dumping enclosure. *when broken bags or litharge dust is prevalent on the outside of the bags.*
4. Replace drum lid before removal of drum from exhausted enclosure.
5. Use corrugated boxes for empty pigment bags, similar to empty litharge bag disposal technique.
6. Discontinue using mallet to compact pigment in drum to obtain a predetermined weight. This results in excessive dust liberation to the workroom. Less material will be packed in each drum.
7. Minimize dust generation by sensible handling techniques:
 - (a) Connect canvas sleeve to blender carefully to eliminate shaking dust off of it.
 - (b) Handle pigment from put and take receptacle carefully. Do not let pigment drop into receptacle.
 - (c) Roll and place drums and install their covers carefully.
 - (d) Handle pigment bags carefully--do not throw them.
 - (e) Report damaged ductwork or equipment out of adjustment to supervision where product leakage or dust generation occurs.
 - (f) Remove drum labels carefully.

Engineering and/or Production

1. Yellow drumming
 - (a) Provide additional exhaust ventilation and dust collection for the drumming enclosure. Approximately 2500 cfm exhaust is needed to supplement existing exhaust.
 - (b) The preferred alternate to item (a) above is to **change** the yellow drumming operation to a system similar to orange drumming where the drum is filled and weighed directly under a "live bin" section of the storage hopper.

- (c) Correct uneven condition of drum rollers inside enclosure.
- (d) Provide local exhaust ventilation for the composite sample drawer.
- (e) Replace gasketing at cleanout port in product chute between dust collector and drumming hopper to prevent product spillage.

2. Yellow bagging

- (a) Redesign local exhaust ventilation for the bag valve (while on the weigh scale), put and take receptacle, and composite sample tray. During the plant visit these changes were made for the green bag packing operations and substantial improvement in dust control was noted. Similar changes for the yellow are recommended.

3. Yellow Blender

- (a) Assure cover is fitted tightly prior to blender rotation. More frequent inspection of cover gasgets is recommended to minimize product leakage.

Litharge Charging

- (a) Building 85 and 86--Periodic sharpening of knife edge inside enclosure is recommended to assure that the litharge bags are punctured when bag is placed on knife edge.
- (b) Building 85--Improve exhaust ventilation and dust control for litharge dumping and bag storage enclosures. (It was reported that the existing system will be replaced shortly with equipment on hand.)

Orange Bagging

- (a) Improve dust control at put and take and composite tray. Refer to Recommendation 2(a) above.

Orange Blender

- (a) Provide an exhaust hood as near as possible to the canvas sleeve that connects the blender to the bag packing conveyor. The use of a flexhaust duct connected to the hood during the sleeve connecting and disconnecting operation will control dust.

General

- (a) Establish a frequent program of vacuum cleaning for the pigment departments to include floors, walls, equipment, ductwork and adjacent surfaces.
- (b) Initiate vacuum cleaning of work clothing prior to entrance to break and lunch room. A vacuum cleaning unit was discussed with Mr. W. Phillips that will do the job.