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ETHYL CORPORATION
Medical Department
Baton Rouge, Louisiana

INDUSTRIAL HYGIENE SURVEY
of
Baton Rouge Plant

VI. Preliminary Survey of Materials and Supplies
Used Principally in
PLANT MAINTENANCE OPERATIONS
and Purchased and/or Stored by
CENTRAL STORES

Preface. This is the final preliminary report covering major areas of activity at the Baton Rouge plant. These reports have been prepared to provide background information for the General Survey by Industrial Hygiene. The Preliminary Reports do not undertake to make any determinations of hazards, beyond indications that may have been evident when information was being gathered.

Adjacent to the storage areas of Central Stores are the shops for sandblasting, metalworking, woodworking, welding, painting, etc. These of course utilize many of the materials obtained and kept on hand by Central Stores.

ETC 01527

Shop activities of course come under the regular surveillance of plant Safety officers. However the shops utilize a great many of the materials purchased and stored by Central Stores. Accordingly Industrial Hygiene personnel are concerned to the extent of insuring that incidental or routine exposures in shop areas to these materials are not hazardous to the workmen or the environs.

Acknowledgments. Most of the materials listed in this Report are used in cleaning, repair, and general maintenance of plant properities, as well as in limited kinds of construction work. Very comprehensive and detailed lists were collected for me through the good offices of J. F. Hamilton. Mr. Hamilton enlisted the assistance of Messrs. R. E. Conrad, D. M. Kirk, R. B. Holloway, J. L. Guillot, L. R. Parker and J. H. Starnes. Mr. L. C. Langlois provided special lists from the Central Stores offices. We thank them all.

Foreword. I have undertaken to sift and edit the lists, which contain a total of many hundreds of items, in order to concentrate attention on what appeared to be the relatively more hazardous classes of materials. (The complete lists as supplied to us are on file in Medical). Hardware, for example, and nearly all non-volatile, non-combustible solid materials were omitted. On each item we have tried to furnish enough information to identify it well enough that either the appropriate Area Maintenance Superintendent or Central Stores can provide the name of its supplier whenever this should be needed.

Because of other equally pressing matters the issuance of this report has been delayed about a year, and I am sorry that this is so. Accordingly it is likely to be somewhat out-of-date in some respects, probably brand names especially, but these instances should be readily apparent when applicable. We hope the central purpose of identifying those classes of materials of possible interest to Industrial Hygiene and the Medical Department will not be importantly affected by the timing.



D. E. Cooper
March 9, 1976

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I. TEL MAINTENANCE

Aluminum 60-65 Spray, Fire Resistive Mastic (5-Gal Pails)

(McCarty Corporation)

Lubricating Oil - Terasco No. N75 (Exxon) (55-Gal Drum)

Grease, Exxon Unirex N-3 (5-Gal Pail)

Pour Foam (Compound A) (20 lb.) (Cook Paint & Varnish Co.)

Pour Foam (Compound B) (20 lb.) (Cook Paint & Varnish Co.)

Thiocalk with Activator, Steel Cote - Gray No. 828

(4-Gal) (Harrison Paint Co.)

Primer for above (1-Gal) (Harrison Paint Co.)

Oil, Exxon Dioil (RDS-81) (Drums)

Oil, Spinesstic-38 (5-Gal) (Exxon)

II. PVC MAINTENANCE

Grease, Dow-Corning 44 (Medium Consistency) (10 lb. Cans)

(Carter Chambers Supply, Inc.)

Adhesive, No. 520 Armstrong (Quarts) (Acme Refrigeration)

Oil, Terrestic No. 43 (5-Gals) (Exxon)

Paint, Non-Skid, Light Grey (Gal Cans) (Harrison Paint Co.)

Oil, Nuto H54 (55-Gal Drums) (Exxon)

Bloctex, White, B42 W1 (Gal Cans) (Sherwin-Williams)

Masonry Sealer (Gal Cans) (Sherwin-Williams)

C.I. Mastic 65-08, Foster Safetee (55-Gal Drums) (McCarty Corp.)

Paint, D-27 Derusto, Glacier Blue (Gal Cans)

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III. HYDROCARBON and SODIUM MAINTENANCE

Catalyst, for use with Atlac 382 Resin, (MEK Peroxide)

(Quart Can) (Industrial Plastics Company)

Roof Covering, R-63 Shield-Tite (55-Gal Drums) (Randustrial Corporation)

Primer, Matcote No. 1-830 Epoxy (30 Gal) (Matcote Co., Inc.)

Thinner, Matcote No. 4-076 Epoxy (One Drum) (55-Gal)
(Matcote Company, Inc.)

IV. ELECTRICAL POWER MAINTENANCE

HTH, Granulated Chlorine (Large drums) McKesson Chemical Company)

Anderol 500 Oil (5-Gal Pails) (Sandair Corporation)

III Cleaning Fluid (Trichloroethane)

Vacuum Pump Oil, Zerice No. 50

Vacuum Pump Oil, Duo-Seal

Mercury

Transformer Insulating Liquid (General Electric) (Pyronol)

V. GENERAL MAINTENANCE

Rust Converter, OSPHO (Rusticide Prod. Co.)

Flux, Certanium 934 (Certanium Alloy & Research)

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V. General Maintenance (contd.)

Liquid Cleaner, Ex-Lent (Hunter)

Drain Opener, Liquid Hot-Shot (Hunter)

Industrial Deodorant, Big "D" (Office Air Conditioning)

(Big "D" Chemical Company)

Vapona Insecticide (in wet spray change house) (Shell)

Baygon Insecticide (in wet spray offices) (Thompson-Hayward)

Industrial Aerosol (to fog offices) (Thompson-Hayward)

Insectrol 400 Fluid (to fog offices) (Hunter)

Asphalt Emulsion (Patch roads) (Chevron)

Wasp Spray (Hunter)

Sta-A-Way Repellent (Hunter)

Kill-Ko Rat Killer (Rigo Chemical)

D-Con Pellets (The D-Con Company)

Ammonia - plant cleaning (Parson's)

Hydrolytic Enzyme Bacteria Complex (for treating plant
septic tanks) (Hunter)

Lubricating Oil (various types) (for machinery lubricants)

Mastic (for protective coating)

Mercury (for instrument maintenance)

Protective coatings, Types of

Aluminum

Asphaltum

Chlorinated Rubber

Enamel

Epoxy

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V. General Maintenance (contd.)

Protective coatings (contd.)

Lacquer
Oil Base
Vinyl
Water Base
Primers
Thinners
Insectrol 400 (Hunter)
Baygon (Hayward-Thomas) (Insecticide)
Industrial Aerosol Insecticides (Hayward-Thomas)
102 Concentrate (a neutral cleaner)
Cleaner, Panther 300
Cleaner, Panther 500
Cleaners "Okite"

VI. CENTRAL STORES

(Supplementary Lists)

Class 21. Welding Rods and Supplies

1. Should consult Central Stores or Medical for list of items, mostly hardware, in above class.
2. Recommend a personal inventory of the acetylene, oxygen, propane, and other gases stored in cylinders under open shed near Central Stores. See also listings under Class 59.

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Class 27. Paint, Lubricants, Fuels

Paints

(See Central Stores or Medical for itemized list.)

Thinners

(See Central Stores or Medical for itemized list.)

Lubricants

(See Central Stores or Medical for itemized list.)

Fuel

Varsol (55-Gal Drum) (Exxon)

Kerosene (55-Gal Drum) (Exxon)

Natural Gas Odorizers

Alert #80 (5-Gal Can)

Spotleak #1009

Captan #99 (55-Gal Can)

Class 28. Hot and Cold Insulation Materials

Cement, asbestos shorts No. 460 (100 lbs. sack) (Johns
Manville)

Di-Octyl Phthalate (DOP) (5-Gal Can) (Ashland)

Urethane Insulation, Component A CPR 425 Isonate System
(55-Gal Drum) (Upjohn)

Urethane Insulation, Component B CPR 425 Isonate System
(55 Gal-Drum) (Upjohn)

Gulfco No. 540 Oil (55-Gal Drums) (Gulf Oil Corporation)

Monolar Gray Coating (Foster 60-29) (55-Gal Drums) (Anco)

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Class 59. Cafeteria, Chemical, Janitor, Laboratory,
and Laundry Supplies and Equipment

Acid, Nitric, 40° (carboys 148# each)
Acid, Oxalic, Crystals (400# drum)
Ammonia, Aqua, Technical Grade 26° BE (55-Gal Drum)
Anhydrous Ammonia (150# cylinder)
Chelant, N-70-GZ (Boiler Water Additive) (300# Drum)
Sulfuryl Chloride (200# Drum)
Chlorine Gas (150 lb. Cylinder)
Fuel, Gas, compressed 40% Hz, 60% N₂, water pumped, 99.99%
pure, hydrocarbon-free (200 cu.ft. cylinder)
Hydrogen Gas, Dry (194 lb. Cylinder)
Gas, "Zero Mixture", 40% Hydrogen, 60% Nitrogen, water pumped,
99.99% pure, hydrocarbon-free (80 cu.ft. per cylinder)
Heptane, ASTM reference fuel grade only (55-Gal Drum)
Nalcolyte 677, 55 gal. drum. With activator (gal can)
Oakite, No. 19 composition (460# Drum)
Permanganate, Potassium, commercial (600# keg)
Sodium Sulfide, Tech. grade flake 60 - 62% (400# Drum)
Sulfide, Ind. Grade (boiler water additive) (500# Drum)
Xylene, nitration grade - 3° (55-Gal Drum)
Cleaner, Hunter's concentrated floor, No. 1-102 (55-Gal Drum)
Cleaner, Super industrial X (55-Gal Drum)
Cleaning Solvent (Aqua-Solv) (55-Gal Drum)
Cleaner, Liquid, Panther No. 500 (55-Gal Drum)
Cleaner, Chem No. 375A (450 lb. drum) for AK fluid tank car
cleaning)
Compound, Floor sweep, 100% hardwood, oiled and dye color
red, inner poly-lined bag (approx. 50# per container)

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GENERAL COMMENTS

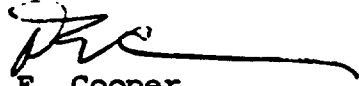
The Central Stores area consists of storage shelving, bays, and bins in the eastern end of a large structure. The western end comprises the large expanse of shops. Cylinder gases are stored outside in concrete-block bays. (See area map attached.)

Central Stores provides space for many process chemicals - utilized in manufacturing - largely as a service.

Central Stores has an efficient computer system which keeps account of new materials received and also of all withdrawals, providing a continuous inventory.

Other notes:

1. All packages receive numbers which identify them by Item Number (corresponding to those on Inventory Records), and also locate them by Bins.
2. Most packaged products carry, whenever appropriate, warning labels and first-aid information. (Writer's note: - Whenever it becomes practical, it could be valuable to reinforce somehow the awareness of employees about these printed instructions).
3. It was noted that most products are labeled to conform to DOT shipping regulations. Accordingly, Central Stores may often on request be able to make available to Ethyl shipping staff personnel, for possible use as a model, the labelling adopted by the company's suppliers.
4. Welding rod bundles carry appropriate references to safety manuals.


D. E. Cooper
March 9, 1976

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