

DEPARTMENT OF THE AIR FORCE

832D MEDICAL GROUP (TAC) LUKE AIR FORCE BASE, AZ 85309-5300

REPLY TO ATTN OF: SGPB (MSgt Grandberry, 7521)

9 Oct 87

SUBJECT: Disposal of PAC-LEI Solvent

TO: 58 EMS/MAED MSgt Kitchel

1. As requested by your shop per current Air Force directives, a sample of PAC-LEI solvent was collected and sent for analysis.

2. The sample was tested for heavy metals and other elements that would cause harm to the environment, thereby causing this chemical to be classified as a hazardous waste.

3. Labortory Results: Analysis indicated this chemical is not a hazardous waste, and therefore it can be disposed of by simply dumping it into the sanitary sewer system.

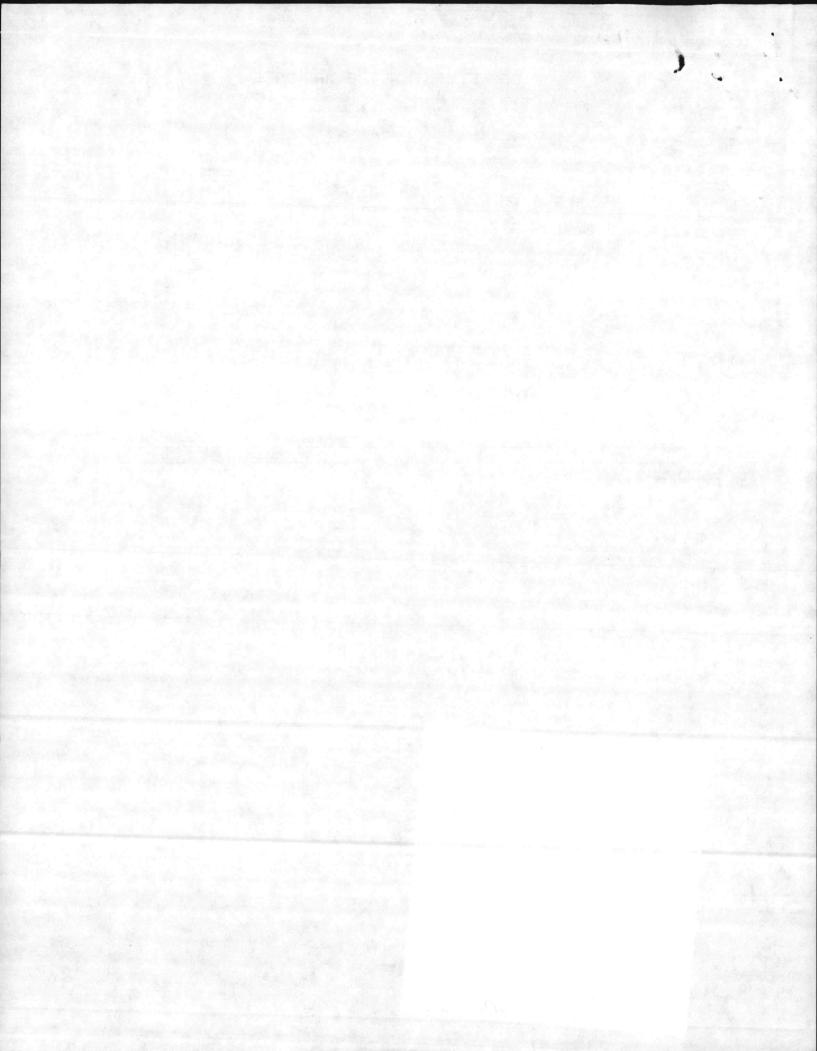
4. If we can be of any further assistance, just call us.

JESSE D. HUMBERD, Major, USAF, BSC Chief, Bioenvironmental Engineering Svs

l Atch Laboratory Report

For your Files

9-2-88 John, For your Info. This review and determination shows a successful You may file it or return it. Tom. --- is our Profession





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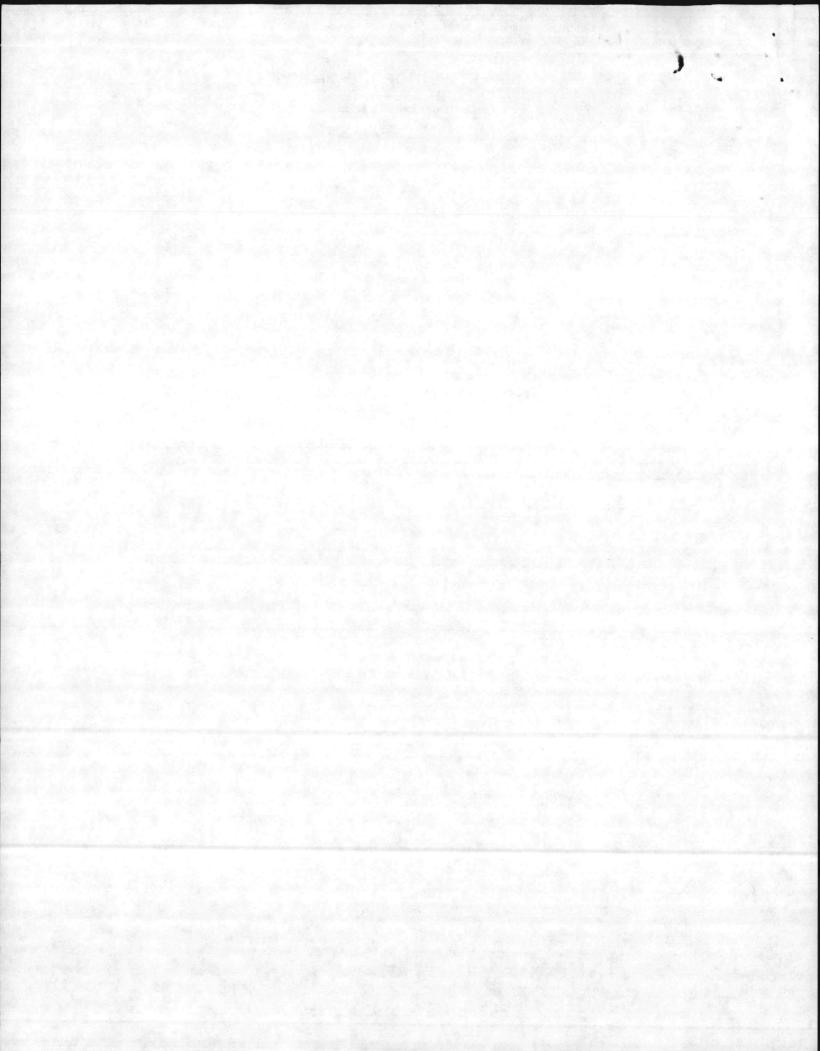
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For your Files

Readiness is our Profession

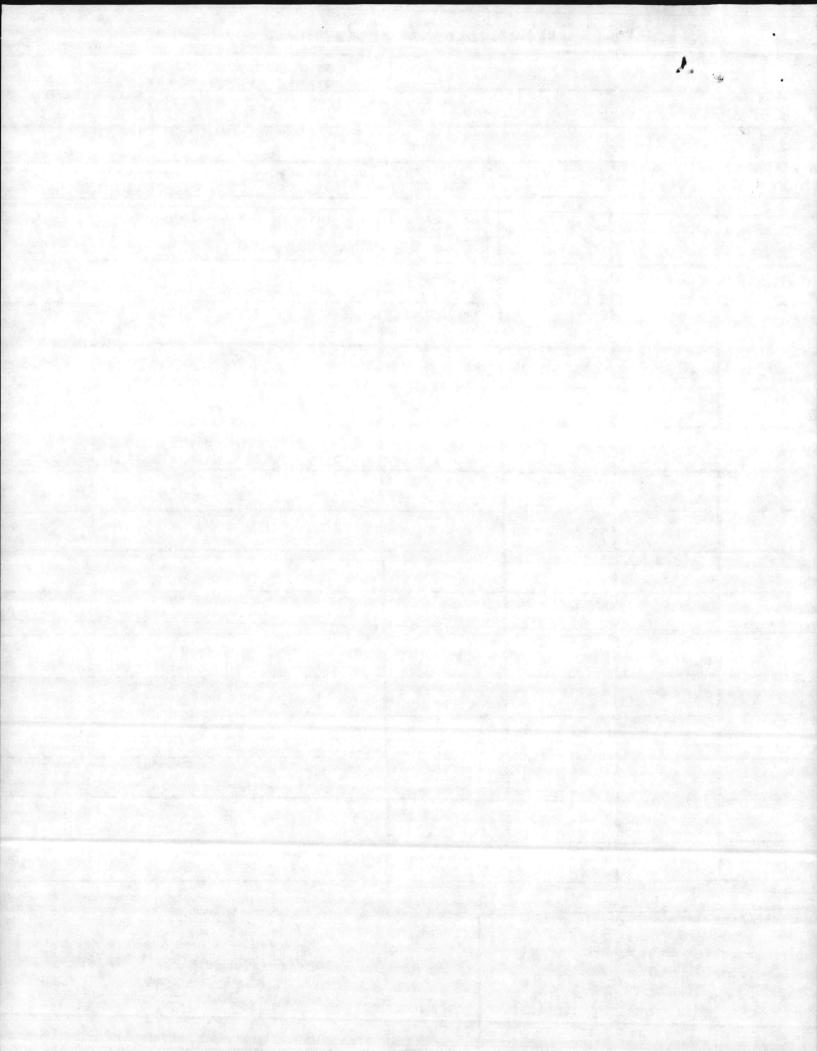


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| GT 87 | 1145-8 | 70146-8 | 78/47 11- | ster seconicals | 9 41542-47-4 |
| INTER TOUS | Waste Anal | ared Spectro yses by: Gas | praph: X-ray f Chromatograph | luorescence: PH measur : closed cup Tlash pt. | ment Testor: Other |
| ENL No. | Base No. | belgu . 340 F | and/or Reactivity | RESULTS OF ANALYSIS | |
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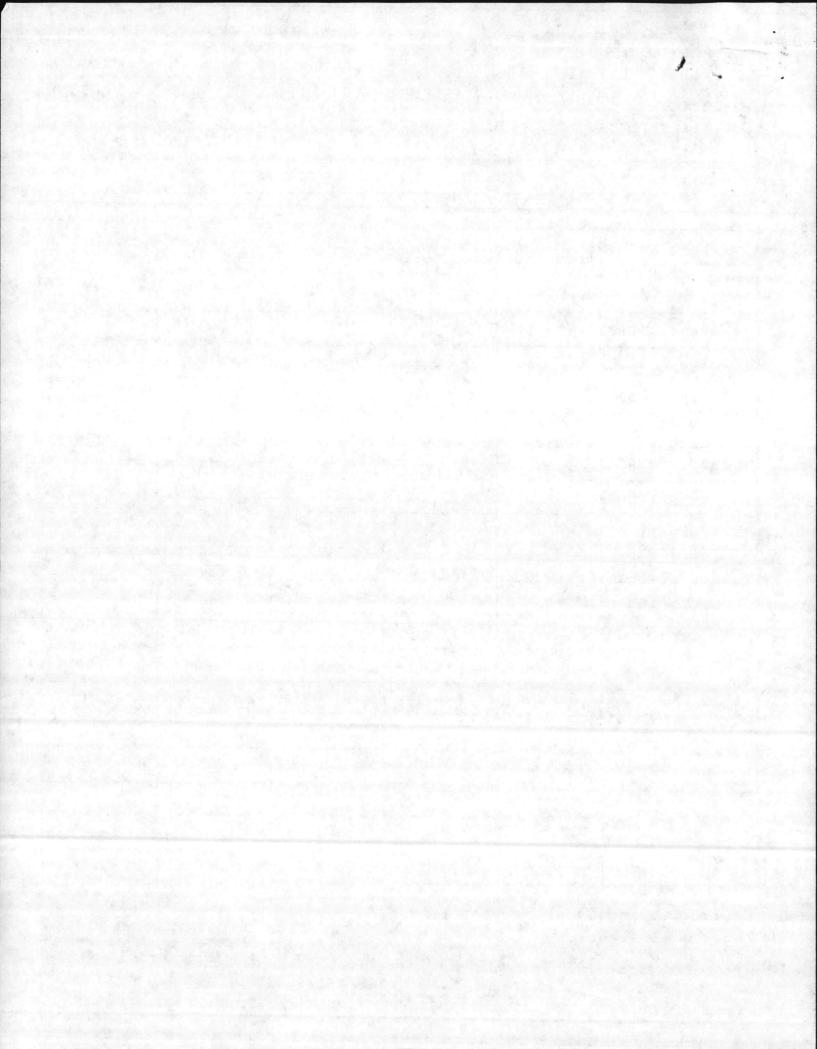
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JO Hillihenry

J. D. HILLSDERRY, GS-12 Thial Industrial Products and Tomoressed Gas



? 1AL 2 Sept 87 55 gal Dru 11:41 DE 111 754 1X 78235-5501 Solvent 9 Suly 87 CEIVED: 16 Ma SIS AT870145 AT870 146 AT87014 41548 41546 41547 10.01 10.01 SOLOL 4.05 51.00 51.00_ 0.40 0.0 0.0 0.1 0.05 0.05 2.78 0.10 0.11 CUPY 71900 <u>Co.001</u> 50.001 100.001 10.01 10:01 10.01 ilver 1077 0.02 0.01 (0.01 IMICHAEL J. WALTLAND, TSet. INGOIG-Cecupational_Chernistry_ Sic questing Agency: Eduar 2a. Irna 832 Med Group / SGPB A.T.B. AZ 85309-5300 EDWARD A. HENA "hysical Science Technician Anelysis Section] <



USDA APPROVED

DNB DISTRIBUTORS, INC.

100% SAFE CLEANER/ DEGREASER

WAREHOUSE DISTRIBUTORS FOR LEI PRODUCTS

A Bidders Mailing List Application (Form 129) has been submitted to Base Contracting Office introducing to the Federal/Military Agencies **PAC-LEI**, a cleaner/degreaser solution which is a colloidal suspension agent, manufactured by Legal Environmentalists, Inc.

PAC-LEI is formulated for use in the environmental areas with daily cleaning/degreasing problems. It is a homogenous blend of hyper wetting agents, sequesterants, and colloids. When mixed with hard, soft, or salt water, it becomes charged and a hyper active cleaning agent. It contains no petroleum solvent, nor is it a "soap" or "detergent."

The action of **PAC-LEI** on grease, oil, animal fats, etc., is accomplished by emulsion; thus destroying the molecular bond of hydrocarbons. Oils and greases lose their identity and become a water soluble solution. WATER IS YOUR CLEANING AGENT. The residue is sewer disposable. **PAC-LEI** eliminates odors, cleans grease traps, drain lines etc., plus reducing plumbing costs and fire hazards. No special clothing, gloves, goggles, handling or storage required. A cleaner/degreaser that is 100% safe everywhere. It is biodegradeable and environmentally safe. Grease is its enemy, wherever it may be. Not only in the kitchen, galley, scullery,

COMPLIES WITH OSHA 29_CFR_1910-1200

but on a ship, tank, aircraft, etc. Effectively cleans fuel spills, 20mm guns, complete suspension equipment parts, and F-16 ammo load systems. Perfect for VAT operations.

| BASIC | DILUTION | RATIOS |
|--------------|----------|------------|
| USE | WAT | ER/PAC-LEI |
| Heavy Clean | ning | 10/1 |
| Average Cle | | 20/1 |
| Light Cleani | ng | 30/1 |

Why PAC-LEI? Check the benefits! It's safe, cost effective & odorless.

SAFETY NON-HAZARDOUS NON-TOXIC NON-CAUSTIC NON-FLAMMABLE NON-FUMING NON-POLLUTING SEWER DISPOSABLE NO FLASH POINT PH ▶ 10 BIODEGRADABLE WATER SOLUBLE

Ft. Inwin, CA

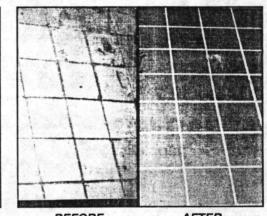
Ft Rilev, KS

FREQUENT USES HOODS - VENTS - FLUES STAINLESS - PLASTICS FOOD AREAS - DECKS FILTERS - SCREENS WOOD - FIBRE GLASS FLOORS - WALLS - PAINT TANKS - BILGES - STACKS HULLS - COWLING PRESSURE SYSTEMS POTS - PANS DISHES

PHOSPHATES - NITRATES NTA - ENZYMES SULPHATES - CAUSTICS SILICATES - SULFONATES BUTYL - CELLUSOLVE

PAC-LEI SAYS "NO" TO

ELIMINATES ODORS - MAINTENANCE PLUGGED DRAINS, TRAPS, LINES INJURIES – CHEMICAL BURNS



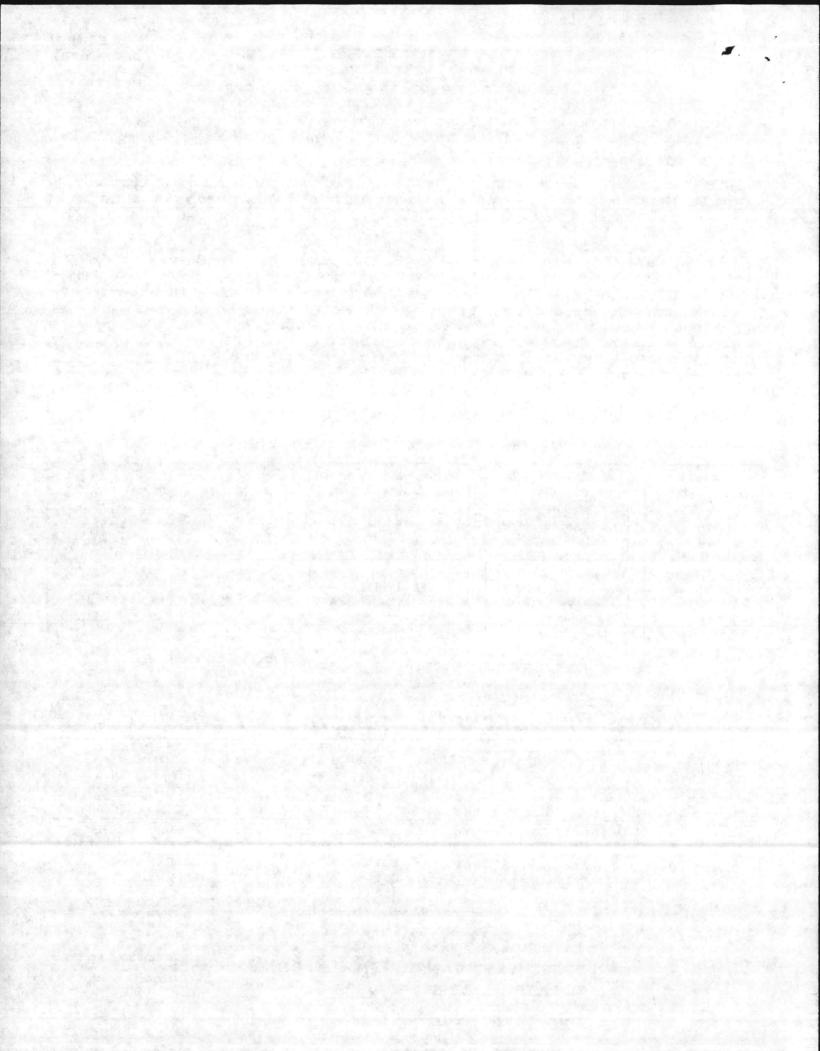
BEFORE

AFTER

Current Product Information & Prices (JAN. 1, 1987)

| QUANTITY 4 GALLON CASE PACK 5 GALLON PAIL 55 GALLON DRUM | P/N PL-4 PL-5 PL-55 | PRICE/GAL \$11.50 10.00 8.00 | PRICE/CASE \$46.00 50.00 440.00 | wt 34 LB 42 LB 465 LB | FREIGHT CONTINENTAL USA FOB DESTINATION FOB DESTINATION FOB DESTINATION |
|---|-------------------------------------|--|--|---|--|
| TERMS: 1% – 20 DAYS, TIME OF DELIVERY – 1 MSDS - Material Safety Da (OSHA 20) Available Upon Minimum Order (1 unit-Case-F | 5 DAYS ta Sheet Request | DNB DISTR P.O. | s/Payment Addres NBUTORS INC. Box 626 AZ 85353-0626 | 17 19 19 19 19 19 19 19 19 19 19 19 19 19 | CLASSIFICATION: Business – Woman Owned MILSCAP #6Z684 DUNS #000003366 |
| Tyndall AFB, FL Moody AFB, GA | 9386C W | | UTORS, | | NAVY/MARINE NAS, Alameda, CA Lemoors NAS, CA NAVSUB Base, Bremerton, WA MCLB, Barstow, CA U.S. FEDERAL AGENCIES GSA Saudi Arabia – American Embassy USDA, Jacksonville, FL US Fish – Wildlife, MI |

602-936-5374 "DNB has a Better Seine



USDA APPROVED

Bulk Rate U.S. Postage PAID Tolleson, Arizona Permit No. 30

P.O. Box 626 F.O. Box 626 Tolleson, Arizona 85353-0626

PAC-LEI: A Colloidal Suspension Agent USDA 100% SAFE APPROVED CLEANER/ PUT A WINNER IN THE KITCHEN AND THE CHAIN OF COMMAND AT EASE! DEGREASER FIRE INSPECTIONS PAC-LEI - Complies with OSHA 29-CFR-1910-1200 - U.S.D.A. Approved GREASE PROBLEMS ? - A Military Favorite - State Agencies - VA Hospitals — Schools - Restaurants HEADACHES ? ? ? LLL - Is Your Answer PAC-LEI - "Your Helper in the Kitchen as well as Industrial/Marine areas" 100% "people safe" colloidal suspension agent cleaner/degreaser. Emulsifies grease, oils, mineral fats, grime, etc. Eliminates odors, plumbing problems, fire hazards, plugged grease traps, lines, sumps.

BIODEGRADABLE ENVIRONMENTALLY SAFE

1-5374

61

PAC-LEI IS COST EFFECTIVE – SAFE

USDA APPROVED MADE IN U.S.A.

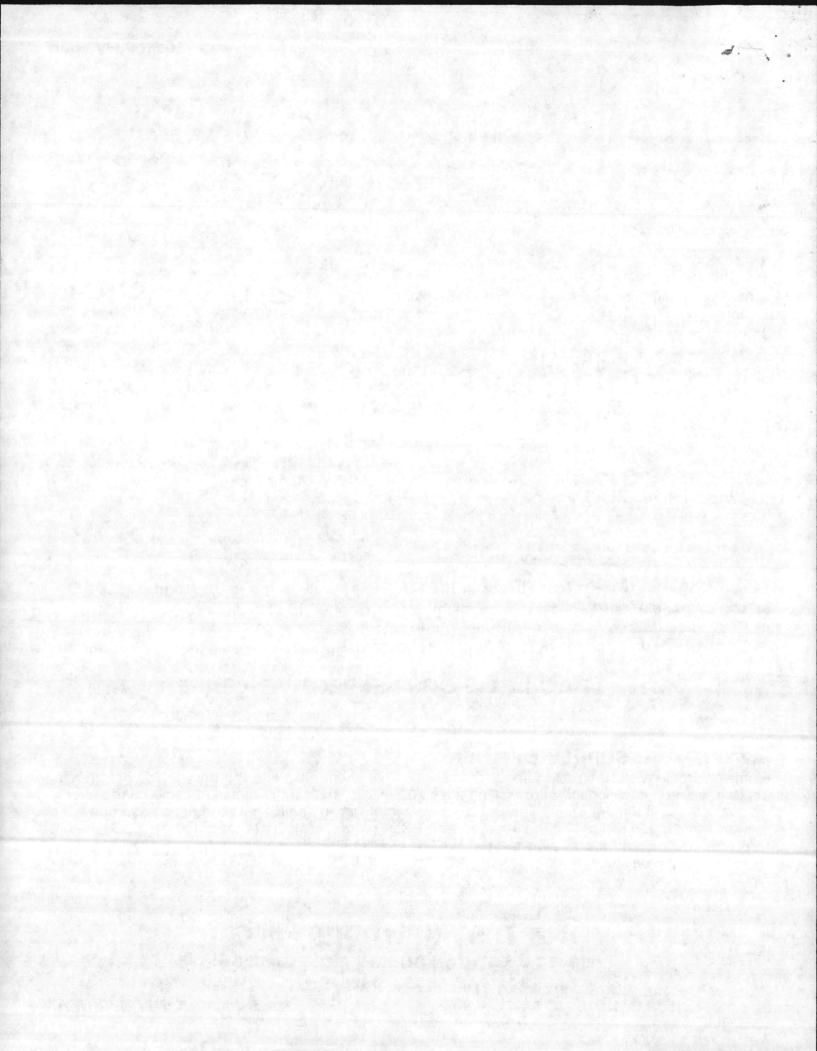
ATTENTION: SUPPLY OFFICER

A major problem exists in every food facility, industrial shop, etc., with the daily buildup of grease, its dangers and its disposal. After visiting over 200 military bases, the question came up repeatedly at every fire department, *"have you got a safe cleaner that will emulsify grease and rinse down the sewer without plugging it?"* The answer is YES! For only \$46.00 (4 gallon case pack) freight prepaid, you will find the answer to your grease problems, and your fire department will love you. Send in your order today!

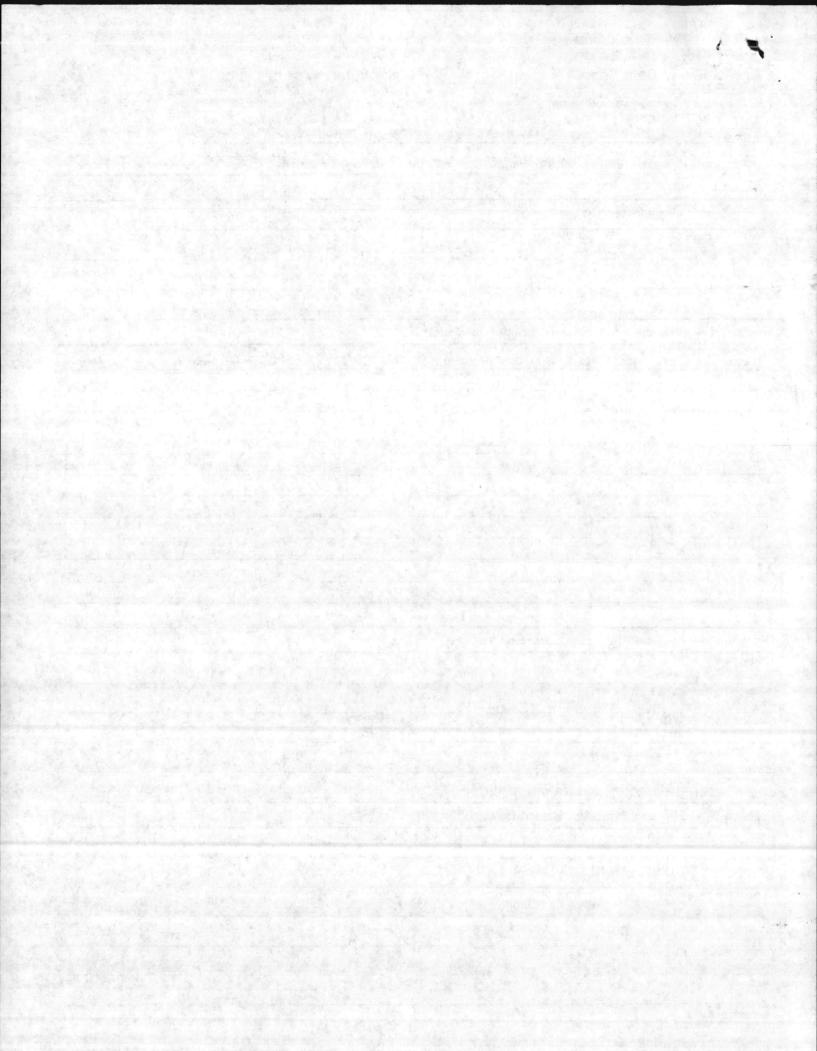
DNB DISTRIBUTORS, INC. 9386C WEST VAN BUREN, P.O. BOX 626

TOLLESON, AZ 85353-0626

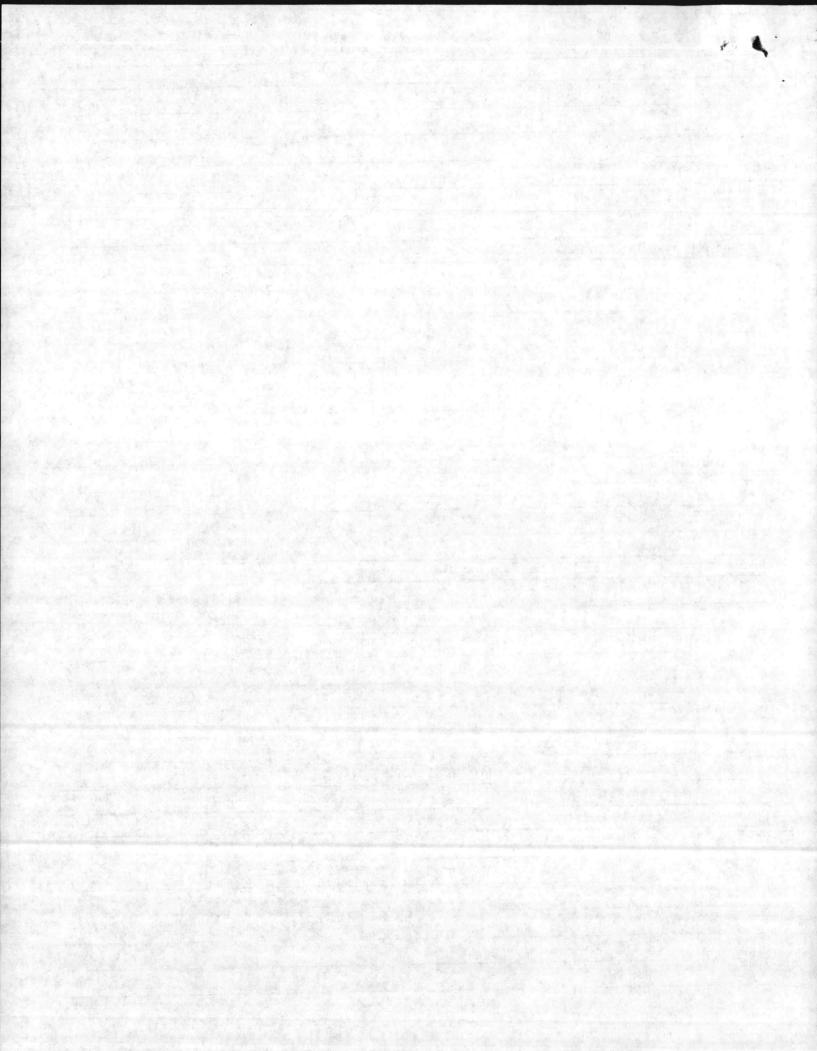
"DNB has a Better Solution"



| 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. | d. | U.S. Department of Labor Occupational Safety and Health Administrat (Non-Mandatory Form) Form Approved OMB No. 1218-0072 | ion |
|--|--|--|---|
| IDENTITY (As Used on Label and List) PAC | C-LEI | Note: Blank spaces are not permitted. If any item is information is available, the space must be m | s not applicable, or no barked to indicate that. |
| Section I | and the design | a gara an | enter de Andre and |
| Manufacturer's Name LEGACY ENVIRONMENTALISTS, | INC. | Emergency Telephone Number (602) 437-2812 | an a |
| Address (Number, Street, City, State, and ZIP (P.0. BOX 24831 | Code) | Telephone Number for Information (602) 437-0641 | |
| TEMPE, AZ. 85282 | • | Date Prepared DECEMBER 1, 1986 | 1 |
| | | Signature of Preparer (optional) | mili |
| Section II — Hazardous Ingredients | /Identity Information | 1 | 1 |
| Hazardous Components (Specific Chemical Ide | entity; Common Name(s)) | OSHA PEL ACGIH TLV Recomme | |
| NO HAZARDOUS COMP | PONENTS | | |
| | | · · · · · · · · · · · · · · · · · · · | |
| Section III — Physical/Chemical Cha | aracteristics | | |
| Section III — Physical/Chemical Cha | | Specific Gravity (H ₂ O = 1) | 1.01 |
| | aracteristics 93.4C | | |
| Boiling Point | aracteristics | Specific Gravity (H ₂ O = 1) | 1.01 N/A .7 |
| Boiling Point Vapor Pressure (mm Hg.) | aracteristics 93.4C 17.0 | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate | N/A |
| Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% | aracteristics 93.4C 17.0 .62 | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate | N/A |
| Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor | aracteristics 93.4C 17.0 .62 GREEN COLOR | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate | N/A |
| Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor VERY MILD ODOR, LIGHT Section IV — Fire and Explosion Ha | aracteristics 93.4C 17.0 .62 GREEN COLOR | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate | N/A |
| Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor VERY MILD ODOR, LIGHT | aracteristics 93.4C 17.0 .62 GREEN COLOR | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1) | N/A .7 |
| Boiling Point Vapor Pressure (mm Hg.) Vapor Density (AIR = 1) Solubility in Water 100% Appearance and Odor VERY MILD ODOR, LIGHT Section IV — Fire and Explosion Ha Flash Point (Method Used) NONE | aracteristics 93.4C 17.0 .62 GREEN COLOR azard Data | Specific Gravity (H ₂ O = 1) Melting Point Evaporation Rate (Butyl Acetate = 1) | N/A .7 |



| NONE Hazardous Decomposition or Byproducts NONE Hazardous Polymerization May Occur Conditions to Avoid NONE Will Not Occur Conditions to Avoid NONE Section VI — Health Hazard Data Skin? Route(s) of Entry: Inhalation? N/A Skin? Health Hazards (Acute and Chronic) NONE NONE Carcinogenicity: NTP? N/A IARC | N/A Monographs? N/A | Ingestion? N/A OSHA Regulated? N/A |
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| Stable X Incompatibility (Materials to Avoid) NONE Hazardous Decomposition or Byproducts NONE Hazardous Polymerization May Occur Conditions to Avoid Will Not Occur Conditions to Avoid NONE Section VI — Health Hazard Data Route(s) of Entry: Inhalation? N/A Health Hazards (Acute and Chronic) NONE NONE | Monographs? | OSHA Reculated? |
| Incompatibility (Materials to Avoid) NONE Hazardous Decomposition or Byproducts NONE Hazardous Polymerization May Occur Conditions to Avoid Will Not Occur Will Not Occur NONE Section VI — Health Hazard Data Route(s) of Entry: Inhalation? N/A Skin? Health Hazards (Acute and Chronic) NONE NONE IARC Carcinogenicity: NONE N/A IARC Signs and Symptoms of Exposure N/A IARC | Monographs? | OSHA Reculated? |
| NONE Hazardous May Occur Conditions to Avoid Polymerization May Occur Conditions to Avoid Will Not Occur Will Not Occur NONE Section VI — Health Hazard Data Inhalation? N/A Skin? Health Hazards (Acute and Chronic) NONE NONE NONE Carcinogenicity: NONE N/A IARC Signs and Symptoms of Exposure N/A N/A NAC | Monographs? | OSHA Reculated? |
| Hazardous Polymerization May Occur Conditions to Avoid NONE Section VI — Health Hazard Data Route(s) of Entry: Inhalation? N/A Realth Hazards (Acute and Chronic) NONE | Monographs? | OSHA Reculated? |
| Polymerization May booking Conditions to Avoid NONE Section VI — Health Hazard Data Route(s) of Entry: Inhalation? N/A Route(s) of Entry: Inhalation? N/A Skin? Health Hazards (Acute and Chronic) NONE NONE Carcinogenicity: NTP? N/A Signs and Symptoms of Exposure N/A IARC | Monographs? | OSHA Reculated? |
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| N/A Skill? Health Hazards (Acute and Chronic) NONE Carcinogenicity: NTP? NONE N/A | Monographs? | OSHA Reculated? |
| Health Hazards (Acute and Chronic) NONE Carcinogenicity: NTP? NONE N/A | Monographs? | OSHA Reculated? |
| Carcinogenicity: NTP? N/A IARC | Monographs? N/A | OSHA Regulated? N/A |
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| NONE N/A | Monographs? N/A | OSHA Regulated? N/A |
| NONE N/A | Monographs? N/A | OSHA Regulated? N/A |
| igns and Symptoms of Exposure NONE | Span Strate | |
| NONE | | |
| | State State State | Sector Marchaller |
| | | |
| Addical Conditions Senerally Aggravated by Exposure NONE | | |
| | | |
| mergency and First Aid Procedures NONE NECESSARY | | |
| mergency and First Aid Procedures NONE NECESSARY | | |
| | | |
| ection VII — Precautions for Safe Handling and Use | | |
| teps to Be Taken in Case Material Is Released or Spilled | COULD BE STIDDE | ERY, FLUSH WITH WATER. |
| | COOLD DE SLIFF | KI, FLUSH WITH WATER. |
| | | |
| aste Disposal Method NORMAL SELIER DECROCAL MERINARI | A CONTRACTOR | |
| NORMAL SEWER DISPOSAL METHODS. | | |
| recautions to Be Taken in Handling and Storing NONE | | |
| NONE | | |
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| her Precautions | ICT MAY STRATIF | γ. |
| IF EXPOSED TO LOW TEMPERATURES, PRODU | | |
| IF EXPOSED TO LOW TEMPERATURES, PRODU | | |
| IF SO, MIX BEFORE USING. | | Sec. 1. Sec. Calific Sec. 3 |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures | | |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures espiratory Protection (Specify Type) NONE | | |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures espiratory Protection (Specify Type) NONE entilation Local Exhaust RMAI. | Special | |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures espiratory Protection (Specify Type) NONE | Special Other | |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures espiratory Protection (Specify Type) NONE entilation Local Exhaust RMAL Mechanical (General) | Other | ECCADV |
| IF SO, MIX BEFORE USING. ection VIII — Control Measures espiratory Protection (Specify Type) NONE entilation Local Exhaust RMAL Mechanical (General) | | ESSARY |



COPPER STATE ANALYTICAL LAB, INC.



ARIZONA STATE CERTIFIED LAB NO. 0078 710 E. EVANS . TUCSON, AZ 85713 PH. (602) 884-5811 PH. (602) 797-0788

D.A. SHAH REGISTERED ASSAYER

Legacy Environmentalitsts, Inc.

P.O. Box 24831 Tempe, Arizona 85282

ATTN: Mr. Wally Bindig

Copy To:- Lt. Legendre Laboratory Report

| Lab | Id | No. | :-13695 |
|-----|----|-----|---------|

| Location | :-Pac-Lei | |
|---------------|------------|---------------------------|
| Date Received | :-11/11/87 | Type of Sample :-N/A |
| Date Reported | :-11/23/87 | Date of Sample :-11/11/87 |
| Sampled By | :-Client | Time of Sample :-N/A |
| Parameters | Method No. | Results Mgs/L |

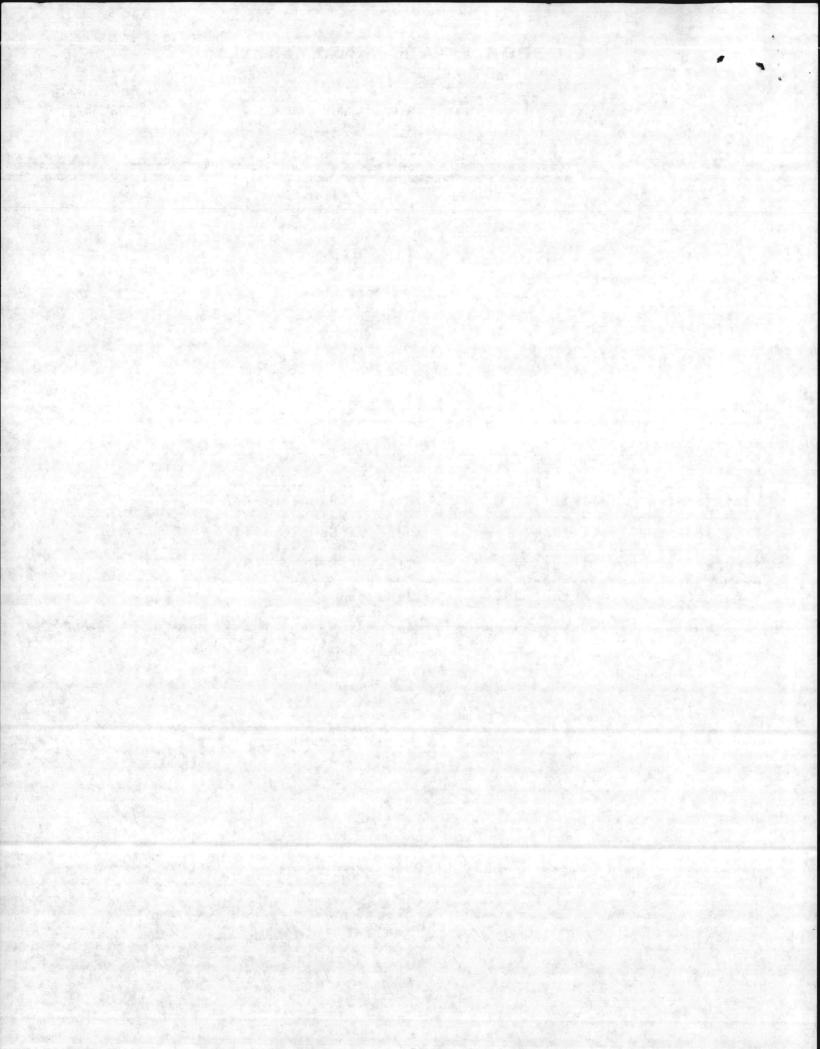
Total Phenol

420.1

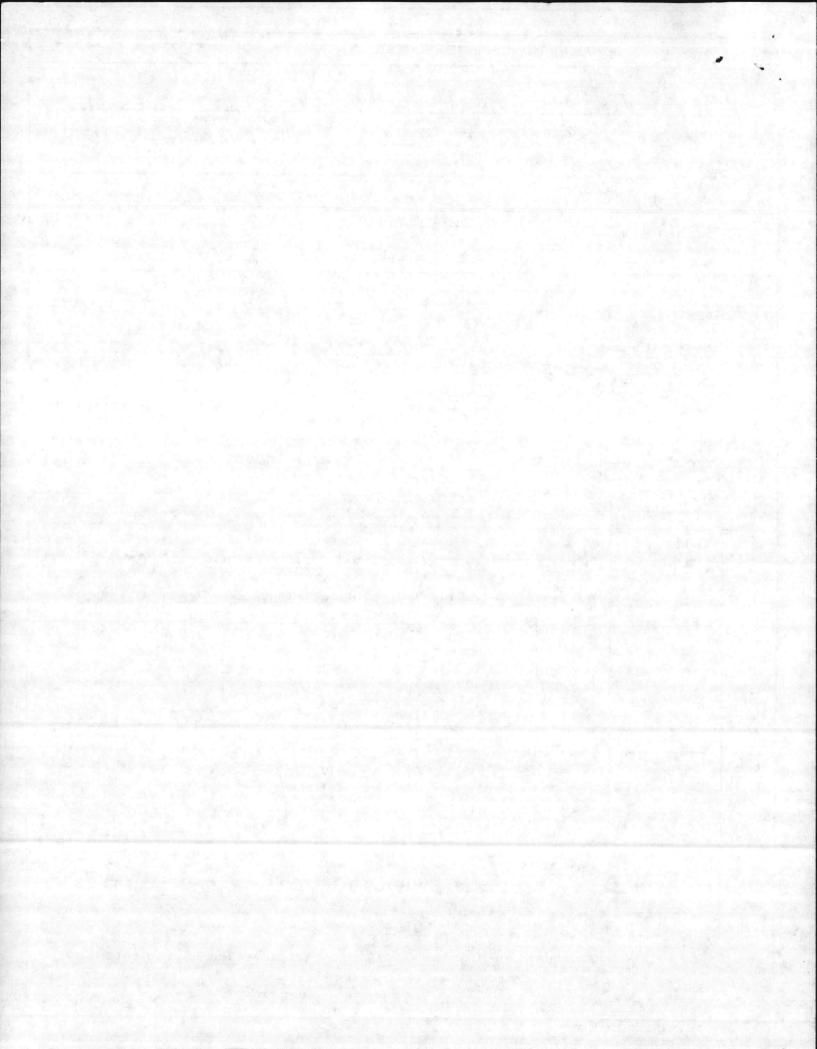
0.011.

== END REPORT ==

Analyst Da. Ukah



9 July 8.7 T O PUBLICATION CHANGE REQUEST 2. FROM 1. 10 MMIRGI MMED 5. PROJECT NUMBER (S) 3. PUBLICATION NUMBE A PUBLICATION DATE (Basic 20T0058TTW 7106R Jul 35030-4-10 Ading SYSTEM LOADER TION 20°mm 7. TYPE REPRODUCTION COPY DUE 9. NEGATIVES DUE TECHNICAL ORDER PAGE SUPPLE SAFETY SUPPLEMENT CHANGE O OPERATIONAL SUPPLEMENT D REVISION 13. HARDNESS CRITICAL ITEM 11 SAFETY REVIEW (OSHA) D NO N/A D YES 17. RGL CERTIFICATION 16 RGL 15 AFSC 14. FOREIGN DISCLOSURE (FDPO) 8.9 42385 290) 100 COORDINATION MARKS (including Prior 1730-NO EVIROMENTAL YZ MISSION ESSENTIAL ANTICIDATED AUTHORIZED TO ALL COUNTRIES AUTHORIZED THE BASIC TO; NOT AUTHORIZED 20. FOREIGN DISCLOSURE OF THIS INFORMATION IS MF MU PI GR GY HK IT KS NE NO NN IS EG SR AT .IA RE DE RESTRICTED TO: (CIRCLE OR ADD COUNTRY CODE) TW UK YS TH TK 22. APPROVAL SIGNATURE (A 21 ORIGINATOR'S NAME, OFFICE SYMBOL, PHONE NO., AND SIGNATURE Hen (1) JESSE VEGA MMIRGA, 56515 INSTRUCTIONS 238 PARAGRAPH NO 23A. PAGE NO. for changing illustrations, new or changed listings in Parts Breakdown, etc.) rewording instructions Table Change specification on Table of consumable 2-2 2-2 MATERIALS, ON ITEM which CALLS FOR, SOLVENT, DRY CLEANing FROM P-D-680 TYPE !! TO REAd PD-680 TYPE II/OR EquivALENT Include in The LAST SENTENCE Where SOLVENT, P.D. 5-1 5-5 is mentioned The lor Equivalent. 680 TYPE Include in The First Sentence of the paragraph(a.) 5-47 .5-27.a. where Solvent P-D-680 TYPE Il is mentioned the "/ OF EQUIVALENT." DISTRIBUTION STATEMENT Obstitution authorized to U.S. Government agencies and their contractors (indicate reason) Critical Technology Administrative or Operational Use C Specific Authoritys _. date of determinations of July B. 11 TX 70241-5000. Other requests for this document shall be referred



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| Langley AFB, VA | | obins A | | | | | B, AZ 85309 |) | 8 7 0 5 0 5 |
| 9 Aug 84 | CHG 4.0 | CHANGE | 7. PAGE | | 6. F | | APH NUMBER | A CARLENS AND A CARLENS | RE NUMBER |
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| BRIEF SUMMARY OF DE | - 1 2 - 4 | - 3 2 | | | | | | 5 8 T | T W 7 1 0 5 |
| DEFICIENCY: TH cleaning. RECOMMENDED CHA to read P-D-68 to read the sam | NGE: Char Char Char | order and | ddress | es only | one t | ype (| f solvent | 1 | ng solvent on of T.O |
| REASON FOR CHA cleaning solven that are bio | degradable | ss haz , wat | ardous .er so | solvent: luable. | s shoul sewer | d be di | auchorized | . Ne | w solvents |
| that are bio non-caustic, n is one type of acids, phosphat TITLE: Additio | degradable on-corrosi degreaser degreaser on of Clear stenature.cas e) Tsgt. () | ess haz , wat ve, no for /clean des, ca hing So onc Extension | ardous er so n-fumin use i er tha austics lvents | solvent oluable, ng, are n-lieu t does n , or but | s shoul sewer availa of P-D ot con: yls all | d be r di ble)-680 tain lowin | authorized sposable, and should NSN 77 harmful or g for a sat | I. Net non- be 30-POO hars fer op | w solvents flammable, authorized -1965-4887 h alkalis, efaction. |
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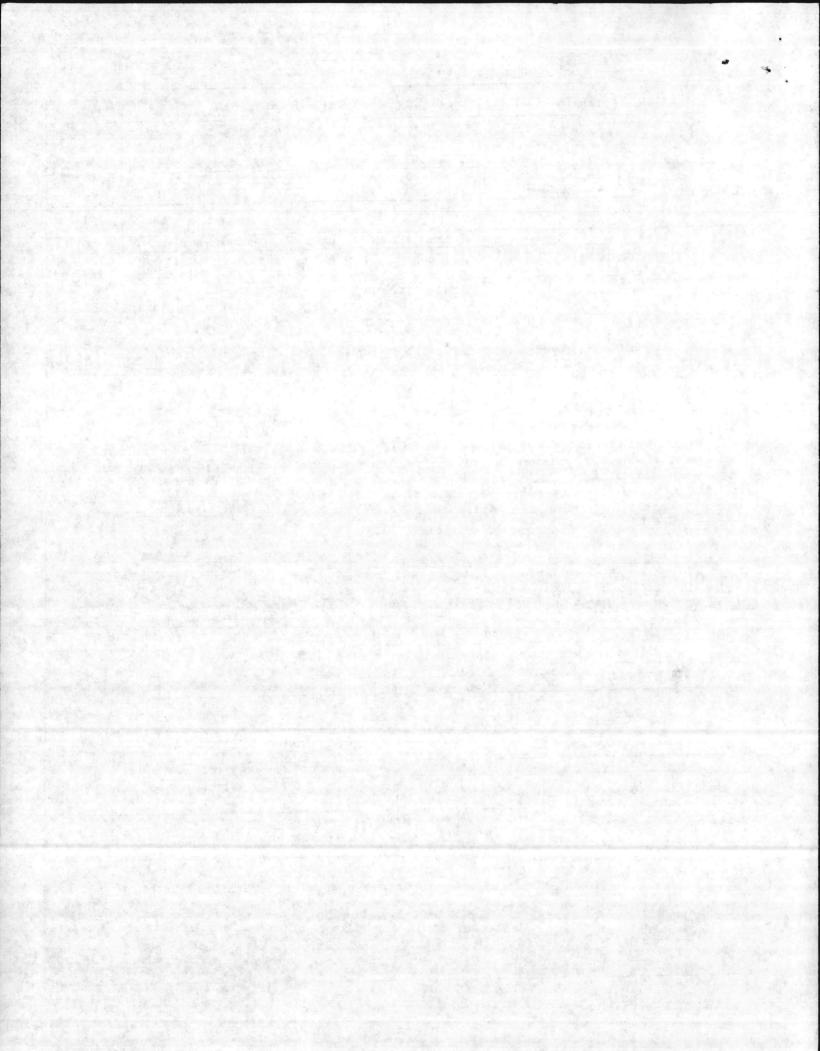
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